

ATOM	1727	ND2	ASN	A	226	23.816	46.408	68.154	1.00100.07	A
ATOM	1728	C	ASN	A	226	26.408	48.508	65.870	1.00 61.29	A
ATOM	1729	O	ASN	A	226	26.799	48.521	64.706	1.00 61.29	A
ATOM	1730	N	PRO	A	227	27.117	49.048	66.868	1.00 40.31	A
ATOM	1731	CD	PRO	A	227	26.527	49.417	68.167	1.00 59.71	A
ATOM	1732	CA	PRO	A	227	28.412	49.703	66.712	1.00 40.31	A
ATOM	1733	CB	PRO	A	227	28.206	50.984	67.487	1.00 59.71	A
ATOM	1734	CG	PRO	A	227	27.521	50.456	68.713	1.00 59.71	A
ATOM	1735	C	PRO	A	227	29.549	48.893	67.313	1.00 40.31	A
ATOM	1736	O	PRO	A	227	29.310	47.992	68.110	1.00 40.31	A
ATOM	1737	N	GLU	A	228	30.784	49.246	66.962	1.00 59.63	A
ATOM	1738	CA	GLU	A	228	31.964	48.552	67.476	1.00 59.63	A
ATOM	1739	CB	GLU	A	228	32.915	48.224	66.326	1.00100.07	A
ATOM	1740	CG	GLU	A	228	33.255	49.422	65.465	1.00100.07	A
ATOM	1741	CD	GLU	A	228	34.162	49.065	64.309	1.00100.07	A
ATOM	1742	OE1	GLU	A	228	33.737	48.260	63.448	1.00100.07	A
ATOM	1743	OE2	GLU	A	228	35.299	49.592	64.265	1.00100.07	A
ATOM	1744	C	GLU	A	228	32.684	49.388	68.534	1.00 59.63	A
ATOM	1745	O	GLU	A	228	32.123	49.679	69.587	1.00 59.63	A
ATOM	1746	N	ALA	A	229	33.934	49.743	68.247	1.00100.07	A
ATOM	1747	CA	ALA	A	229	34.773	50.566	69.119	1.00100.07	A
ATOM	1748	CB	ALA	A	229	34.435	52.038	68.894	1.00 56.47	A
ATOM	1749	C	ALA	A	229	34.789	50.255	70.622	1.00100.07	A
ATOM	1750	O	ALA	A	229	34.070	49.374	71.102	1.00100.07	A
ATOM	1751	N	SER	A	230	35.639	50.989	71.346	1.00100.07	A
ATOM	1752	CA	SER	A	230	35.799	50.856	72.800	1.00100.07	A
ATOM	1753	CB	SER	A	230	37.154	50.233	73.130	1.00 57.13	A
ATOM	1754	OG	SER	A	230	37.372	50.230	74.531	1.00 57.13	A
ATOM	1755	C	SER	A	230	35.685	52.219	73.501	1.00100.07	A
ATOM	1756	O	SER	A	230	34.764	52.982	73.219	1.00100.07	A
ATOM	1757	N	ALA	A	231	36.612	52.528	74.411	1.00100.07	A
ATOM	1758	CA	ALA	A	231	36.574	53.813	75.124	1.00100.07	A
ATOM	1759	CB	ALA	A	231	35.302	53.907	75.890	1.00 66.54	A
ATOM	1760	C	ALA	A	231	37.742	54.071	76.077	1.00100.07	A
ATOM	1761	O	ALA	A	231	38.231	53.088	76.677	1.00100.07	A
ATOM	1762	OT	ALA	A	231	38.121	55.259	76.240	1.00 66.54	A
ATOM	1763	CB	ALA	B	6	27.155	51.553	47.423	1.00 79.56	B
ATOM	1764	C	ALA	B	6	27.338	52.268	49.835	1.00100.07	B
ATOM	1765	O	ALA	B	6	28.190	51.919	50.660	1.00100.07	B
ATOM	1766	N	ALA	B	6	29.209	52.643	48.225	1.00100.07	B
ATOM	1767	CA	ALA	B	6	27.726	52.605	48.381	1.00100.07	B
ATOM	1768	N	ALA	B	7	26.035	52.373	50.100	1.00100.07	B
ATOM	1769	CA	ALA	B	7					

ATOM	1811	CA	ALA	B	13	31.168	54.063	68.538	1.00	48.11	B
ATOM	1812	CB	ALA	B	13	29.736	53.737	68.962	1.00	30.65	B
ATOM	1813	C	ALA	B	13	32.093	53.927	69.730	1.00	48.11	B
ATOM	1814	O	ALA	B	13	31.844	53.126	70.634	1.00	48.11	B
ATOM	1815	N	THR	B	14	33.160	54.719	69.734	1.00	65.33	B
ATOM	1816	CA	THR	B	14	34.104	54.698	70.838	1.00	65.33	B
ATOM	1817	CB	THR	B	14	35.351	55.548	70.521	1.00	100.07	B
ATOM	1818	OG1	THR	B	14	35.977	55.053	69.327	1.00	100.07	B
ATOM	1819	CG2	THR	B	14	36.345	55.480	71.673	1.00	100.07	B
ATOM	1820	C	THR	B	14	33.379	55.242	72.073	1.00	65.33	B
ATOM	1821	O	THR	B	14	33.225	56.451	72.243	1.00	65.33	B
ATOM	1822	N	THR	B	15	32.920	54.316	72.909	1.00	100.01	B
ATOM	1823	CA	THR	B	15	32.182	54.596	74.137	1.00	100.01	B
ATOM	1824	CB	THR	B	15	31.609	53.294	74.719	1.00	100.07	B
ATOM	1825	OG1	THR	B	15	32.638	52.611	75.448	1.00	100.07	B
ATOM	1826	CG2	THR	B	15	31.115	52.377	73.599	1.00	100.07	B
ATOM	1827	C	THR	B	15	33.032	55.226	75.232	1.00	100.01	B
ATOM	1828	O	THR	B	15	33.978	55.961	74.950	1.00	100.01	B
ATOM	1829	N	GLN	B	16	32.689	54.900	76.482	1.00	99.07	B
ATOM	1830	CA	GLN	B	16	33.371	55.391	77.688	1.00	99.07	B
ATOM	1831	CB	GLN	B	16	33.434	56.926	77.678	1.00	91.47	B
ATOM	1832	CG	GLN	B	16	34.322	57.534	78.750	1.00	91.47	B
ATOM	1833	CD	GLN	B	16	35.695	56.888	78.811	1.00	91.47	B
ATOM	1834	OE1	GLN	B	16	36.428	56.856	77.822	1.00	91.47	B
ATOM	1835	NE2	GLN	B	16	36.049	56.369	79.980	1.00	91.47	B
ATOM	1836	C	GLN	B	16	32.578	54.891	78.905	1.00	99.07	B
ATOM	1837	O	GLN	B	16	31.914	53.853	78.821	1.00	99.07	B
ATOM	1838	N	GLY	B	17	32.662	55.606	80.029	1.00	100.07	B
ATOM	1839	CA	GLY	B	17	31.908	55.232	81.220	1.00	100.07	B
ATOM	1840	C	GLY	B	17	30.481	55.693	80.971	1.00	100.07	B
ATOM	1841	O	GLY	B	17	29.639	54.897	80.556	1.00	100.07	B
ATOM	1842	N	ASP	B	18	30.194	56.968	81.230	1.00	77.15	B
ATOM	1843	CA	ASP	B	18	28.868	57.503	80.932	1.00	77.15	B
ATOM	1844	CB	ASP	B	18	27.875	57.280	82.090	1.00	100.07	B
ATOM	1845	CG	ASP	B	18	28.244	58.021	83.349	1.00	100.07	B
ATOM	1846	OD1	ASP	B	18	29.429	57.976	83.735	1.00	100.07	B
ATOM	1847	OD2	ASP	B	18	27.333	58.627	83.962	1.00	100.07	B
ATOM	1848	C	ASP	B	18	28.890	58.957	80.473	1.00	77.15	B
ATOM	1849	O	ASP	B	18	28.073	59.786	80.870	1.00	77.15	B
ATOM	1850	N	HIS	B	19	29.848	59.231	79.596	1.00	59.01	B
ATOM	1851	CA	HIS	B	19	30.036	60.536	79.001	1.00	59.01	B
ATOM	1852	CB	HIS	B	19	30.554	61.546	80.031	1.00	99.93	B
ATOM	1853	CG	HIS	B	19	31.642	61.027	80.915	1.00	99.93	B
ATOM	1854	CD2	HIS	B	19	32.186	59.794	81.041	1.00	99.93	B
ATOM	1855	ND1	HIS	B	19	32.300	61.829	81.823	1.00	99.93	B
ATOM	1856	CE1	HIS	B	19	33.202	61.113	82.469	1.00	99.93	B
ATOM	1857	NE2	HIS	B	19	33.153	59.874	82.014	1.00	99.93	B
ATOM	1858	C	HIS	B	19	30.952	60.441	77.799	1.00	59.01	B
ATOM	1859	O	HIS	B	19	31.723	59.490	77.653	1.00	59.01	B
ATOM	1860	N	TYR	B	20	30.841	61.432	76.927	1.00	64.52	B
ATOM	1861	CA	TYR	B	20	31.639	61.483	75.712	1.00	64.52	B
ATOM	1862	CB	TYR	B	20	33.132	61.667	76.040	1.00	86.15	B
ATOM	1863	CG	TYR	B	20	33.940	62.278	74.909	1.00	86.15	B
ATOM	1864	CD1	TYR	B	20	35.331	62.327	74.965	1.00	86.15	B
ATOM	1865	CE1	TYR	B	20	36.076	62.865	73.911	1.00	86.15	B
ATOM	1866	CD2	TYR	B	20	33.313	62.790	73.773	1.00	86.15	B
ATOM	1867	CE2	TYR	B	20	34.046	63.325	72.724	1.00	86.15	B
ATOM	1868	CZ	TYR	B	20	35.420	63.359	72.794	1.00	86.15	B
ATOM	1869	OH	TYR	B	20	36.128	63.872	71.735	1.00	86.15	B
ATOM	1870	C	TYR	B	20	31.415	60.178	74.973	1.00	64.52	B
ATOM	1871	O	TYR	B	20	32.296	59.325	74.909	1.00	64.52	B
ATOM	1872	N	GLY	B	21	30.212	60.024	74.437	1.00	99.59	B
ATOM	1873	CA	GLY	B	21	29.896	58.823	73.700	1.00	99.59	B
ATOM	1874	C	GLY	B	21	30.171	59.065	72.238	1.00	99.59	B
ATOM	1875	O	GLY	B	21	29.258	59.179	71.429	1.00	99.59	B
ATOM	1876	N	GLU	B	22	31.444	59.186	71.901	1.00	60.24	B
ATOM	1877	CA	GLU	B	22	31.824	59.388	70.519	1.00	60.24	B
ATOM	1878	CB	GLU	B	22	33.345	59.257	70.402	1.00	99.88	B
ATOM	1879	CG	GLU	B	22	33.884	59.121	68.987	1.00	99.88	B
ATOM	1880	CD	GLU	B	22	33.951	57.676	68.499	1.00	99.88	B
ATOM	1881	OE1	GLU	B	22	32.894	57.011	68.410	1.00	99.88	B
ATOM	1882	OE2	GLU	B	22	35.074	57.206	68.195	1.00	99.88	B
ATOM	1883	C	GLU	B	22	31.118	58.294	69.716	1.00	60.24	B
ATOM	1884	O	GLU	B	22	31.180	57.111	70.060	1.00	60.24	B
ATOM	1885	N	PHE	B	23	30.427	58.703	68.661	1.00	68.91	B
ATOM	1886	CA	PHE	B	23	29.709	57.786	67.792	1.00	68.91	B
ATOM	1887	CB	PHE	B	23	28.222	57.955	68.023	1.00	73.38	B
ATOM	1888	CG	PHE	B	23	27.833	57.680	69.426	1.00	73.38	B
ATOM	1889	CD1	PHE	B	23	26.914	58.480	70.082	1.00	73.38	B
ATOM	1890	CD2	PHE	B	23	28.437	56.634	70.118	1.00	73.38	B
ATOM	1891	CE1	PHE	B	23	26.601	58.245	71.421	1.00	73.38	B
ATOM	1892	CE2	PHE	B	23	28.139	56.387	71.446	1.00	73.38	B
ATOM	1893	CZ	PHE	B	23	27.217	57.194	72.105	1.00	73.38	B
ATOM	1894	C	PHE	B	23	30.110	58.192	66.394	1.00	68.91	B

ATOM	1895	O	PHE	B	23	30.427	59.359	66.170	1.00	68.91	B
ATOM	1896	N	VAL	B	24	30.125	57.249	65.455	1.00	81.71	B
ATOM	1897	CA	VAL	B	24	30.531	57.594	64.095	1.00	81.71	B
ATOM	1898	CB	VAL	B	24	32.070	57.615	63.953	1.00	8.17	B
ATOM	1899	CG1	VAL	B	24	32.448	57.871	62.510	1.00	8.17	B
ATOM	1900	CG2	VAL	B	24	32.667	58.680	64.852	1.00	8.17	B
ATOM	1901	C	VAL	B	24	30.036	56.748	62.936	1.00	81.71	B
ATOM	1902	O	VAL	B	24	30.568	55.667	62.698	1.00	81.71	B
ATOM	1903	N	LEU	B	25	29.035	57.236	62.208	1.00	73.45	B
ATOM	1904	CA	LEU	B	25	28.584	56.505	61.036	1.00	73.45	B
ATOM	1905	CB	LEU	B	25	27.119	56.808	60.684	1.00	20.54	B
ATOM	1906	CG	LEU	B	25	26.676	58.027	59.875	1.00	20.54	B
ATOM	1907	CD1	LEU	B	25	27.419	58.135	58.550	1.00	20.54	B
ATOM	1908	CD2	LEU	B	25	25.182	57.890	59.639	1.00	20.54	B
ATOM	1909	C	LEU	B	25	29.557	57.067	60.007	1.00	73.45	B
ATOM	1910	O	LEU	B	25	29.912	58.241	60.086	1.00	73.45	B
ATOM	1911	N	GLU	B	26	29.986	56.257	59.044	1.00	100.07	B
ATOM	1912	CA	GLU	B	26	30.984	56.734	58.100	1.00	100.07	B
ATOM	1913	CB	GLU	B	26	32.048	55.648	57.958	1.00	99.35	B
ATOM	1914	CG	GLU	B	26	33.440	56.186	57.747	1.00	99.35	B
ATOM	1915	CD	GLU	B	26	34.499	55.165	58.101	1.00	99.35	B
ATOM	1916	OE1	GLU	B	26	34.482	54.054	57.519	1.00	99.35	B
ATOM	1917	OE2	GLU	B	26	35.348	55.473	58.967	1.00	99.35	B
ATOM	1918	C	GLU	B	26	30.568	57.311	56.738	1.00	100.07	B
ATOM	1919	O	GLU	B	26	30.080	58.440	56.690	1.00	100.07	B
ATOM	1920	N	PRO	B	27	30.744	56.575	55.619	1.00	70.02	B
ATOM	1921	CD	PRO	B	27	31.438	55.321	55.290	1.00	23.02	B
ATOM	1922	CA	PRO	B	27	30.323	57.235	54.379	1.00	70.02	B
ATOM	1923	CB	PRO	B	27	30.851	56.310	53.288	1.00	23.02	B
ATOM	1924	CG	PRO	B	27	32.009	55.647	53.931	1.00	23.02	B
ATOM	1925	C	PRO	B	27	28.837	57.482	54.213	1.00	70.02	B
ATOM	1926	O	PRO	B	27	28.011	56.617	54.484	1.00	70.02	B
ATOM	1927	N	LEU	B	28	28.520	58.683	53.755	1.00	44.22	B
ATOM	1928	CA	LEU	B	28	27.157	59.101	53.491	1.00	44.22	B
ATOM	1929	CB	LEU	B	28	26.538	59.786	54.702	1.00	59.23	B
ATOM	1930	CG	LEU	B	28	26.298	58.974	55.970	1.00	59.23	B
ATOM	1931	CD1	LEU	B	28	25.541	59.835	56.960	1.00	59.23	B
ATOM	1932	CD2	LEU	B	28	25.506	57.721	55.656	1.00	59.23	B
ATOM	1933	C	LEU	B	28	27.267	60.096	52.354	1.00	44.22	B
ATOM	1934	O	LEU	B	28	28.034	61.055	52.445	1.00	44.22	B
ATOM	1935	N	GLU	B	29	26.525	59.867	51.277	1.00	55.67	B
ATOM	1936	CA	GLU	B	29	26.566	60.777	50.138	1.00	55.67	B
ATOM	1937	CB	GLU	B	29	25.359	60.531	49.226	1.00	99.81	B
ATOM	1938	CG	GLU	B	29	25.318	61.360	47.942	1.00	99.81	B
ATOM	1939	CD	GLU	B	29	26.308	60.890	46.890	1.00	99.81	B
ATOM	1940	OE1	GLU	B	29	27.528	61.069	47.097	1.00	99.81	B
ATOM	1941	OE2	GLU	B	29	25.860	60.339	45.857	1.00	99.81	B
ATOM	1942	C	GLU	B	29	26.534	62.204	50.690	1.00	55.67	B
ATOM	1943	O	GLU	B	29	25.783	62.504	51.626	1.00	55.67	B
ATOM	1944	N	ARG	B	30	27.358	63.077	50.120	1.00	83.37	B
ATOM	1945	CA	ARG	B	30	27.434	64.451	50.593	1.00	83.37	B
ATOM	1946	CB	ARG	B	30	28.133	65.358	49.576	1.00	100.07	B
ATOM	1947	CG	ARG	B	30	27.367	65.502	48.289	1.00	100.07	B
ATOM	1948	CD	ARG	B	30	27.615	66.840	47.621	1.00	100.07	B
ATOM	1949	NE	ARG	B	30	26.938	66.895	46.326	1.00	100.07	B
ATOM	1950	CZ	ARG	B	30	26.924	67.957	45.531	1.00	100.07	B
ATOM	1951	NH1	ARG	B	30	27.547	69.067	45.901	1.00	100.07	B
ATOM	1952	NH2	ARG	B	30	26.304	67.901	44.360	1.00	100.07	B
ATOM	1953	C	ARG	B	30	26.059	65.018	50.892	1.00	83.37	B
ATOM	1954	O	ARG	B	30	25.145	64.948	50.067	1.00	83.37	B
ATOM	1955	N	GLY	B	31	25.910	65.559	52.094	1.00	49.44	B
ATOM	1956	CA	GLY	B	31	24.651	66.165	52.449	1.00	49.44	B
ATOM	1957	C	GLY	B	31	23.870	65.507	53.561	1.00	49.44	B
ATOM	1958	O	GLY	B	31	22.820	66.018	53.934	1.00	49.44	B
ATOM	1959	N	PHE	B	32	24.340	64.390	54.106	1.00	58.66	B
ATOM	1960	CA	PHE	B	32	23.569	63.761	55.172	1.00	58.66	B
ATOM	1961	CB	PHE	B	32	23.214	62.318	54.798	1.00	45.85	B
ATOM	1962	CG	PHE	B	32	22.292	62.218	53.610	1.00	45.85	B
ATOM	1963	CD1	PHE	B	32	21.055	62.856	53.619	1.00	45.85	B
ATOM	1964	CD2	PHE	B	32	22.681	61.542	52.457	1.00	45.85	B
ATOM	1965	CE1	PHE	B	32	20.220	62.831	52.489	1.00	45.85	B
ATOM	1966	CE2	PHE	B	32	21.849	61.512	51.322	1.00	45.85	B
ATOM	1967	CZ	PHE	B	32	20.618	62.160	51.342	1.00	45.85	B
ATOM	1968	C	PHE	B	32	24.227	63.814	56.532	1.00	58.66	B
ATOM	1969	O	PHE	B	32	23.565	63.645	57.549	1.00	58.66	B
ATOM	1970	N	GLY	B	33	25.529	64.054	56.556	1.00	34.05	B
ATOM	1971	CA	GLY	B	33	26.207	64.160	57.831	1.00	34.05	B
ATOM	1972	C	GLY	B	33	25.363	65.108	58.647	1.00	34.05	B
ATOM	1973	O	GLY	B	33	24.979	64.805	59.766	1.00	34.05	B
ATOM	1974	N	VAL	B	34	25.042	66.244	58.040	1.00	70.95	B
ATOM	1975	CA	VAL	B	34	24.234	67.296	58.651	1.00	70.95	B
ATOM	1976	CB	VAL	B	34	24.452	68.648	57.902	1.00	46.05	B
ATOM	1977	CG1	VAL	B	34	23.311	69.620	58.172	1.00	46.05	B
ATOM	1978	CG2	VAL	B	34	25.764	69.259	58.336	1.00	46.05	B

ATOM	2063	N	SER	B	46	17.246	68.415	73.737	1.00	100.07	B
ATOM	2064	CA	SER	B	46	15.826	68.592	74.033	1.00	100.07	B
ATOM	2065	CB	SER	B	46	15.059	68.930	72.750	1.00	84.56	B
ATOM	2066	OG	SER	B	46	15.629	70.035	72.075	1.00	84.56	B
ATOM	2067	C	SER	B	46	15.195	67.350	74.642	1.00	100.07	B
ATOM	2068	O	SER	B	46	15.648	66.813	75.657	1.00	100.07	B
ATOM	2069	N	SER	B	47	14.124	66.918	73.993	1.00	38.59	B
ATOM	2070	CA	SER	B	47	13.366	65.745	74.386	1.00	38.59	B
ATOM	2071	CB	SER	B	47	12.578	65.294	73.161	1.00	100.07	B
ATOM	2072	OG	SER	B	47	13.127	65.891	71.990	1.00	100.07	B
ATOM	2073	C	SER	B	47	14.209	64.584	74.939	1.00	38.59	B
ATOM	2074	O	SER	B	47	14.948	63.947	74.213	1.00	38.59	B
ATOM	2075	N	ILE	B	48	14.104	64.311	76.227	1.00	70.20	B
ATOM	2076	CA	ILE	B	48	14.852	63.212	76.811	1.00	70.20	B
ATOM	2077	CB	ILE	B	48	16.377	63.476	76.803	1.00	23.12	B
ATOM	2078	CG2	ILE	B	48	16.930	63.501	78.213	1.00	23.12	B
ATOM	2079	CG1	ILE	B	48	17.104	62.308	76.163	1.00	23.12	B
ATOM	2080	CD	ILE	B	48	16.633	61.975	74.779	1.00	23.12	B
ATOM	2081	C	ILE	B	48	14.374	63.060	78.238	1.00	70.20	B
ATOM	2082	O	ILE	B	48	13.969	64.031	78.877	1.00	70.20	B
ATOM	2083	N	PRO	B	49	14.377	61.829	78.748	1.00	58.07	B
ATOM	2084	CD	PRO	B	49	14.511	60.549	78.028	1.00	100.07	B
ATOM	2085	CA	PRO	B	49	13.933	61.621	80.122	1.00	58.07	B
ATOM	2086	CB	PRO	B	49	13.453	60.177	80.103	1.00	100.07	B
ATOM	2087	CG	PRO	B	49	14.412	59.536	79.140	1.00	100.07	B
ATOM	2088	C	PRO	B	49	15.115	61.844	81.055	1.00	58.07	B
ATOM	2089	O	PRO	B	49	16.239	61.457	80.733	1.00	58.07	B
ATOM	2090	N	GLY	B	50	14.860	62.482	82.195	1.00	100.07	B
ATOM	2091	CA	GLY	B	50	15.912	62.746	83.165	1.00	100.07	B
ATOM	2092	C	GLY	B	50	15.371	63.398	84.427	1.00	100.07	B
ATOM	2093	O	GLY	B	50	14.303	64.004	84.398	1.00	100.07	B
ATOM	2094	N	THR	B	51	16.092	63.283	85.538	1.00	100.07	B
ATOM	2095	CA	THR	B	51	15.631	63.887	86.784	1.00	100.07	B
ATOM	2096	CB	THR	B	51	15.778	62.923	87.966	1.00	84.35	B
ATOM	2097	OG1	THR	B	51	17.167	62.773	88.297	1.00	84.35	B
ATOM	2098	CG2	THR	B	51	15.193	61.575	87.611	1.00	84.35	B
ATOM	2099	C	THR	B	51	16.406	65.153	87.119	1.00	100.07	B
ATOM	2100	O	THR	B	51	17.380	65.481	86.440	1.00	100.07	B
ATOM	2101	N	ALA	B	52	15.978	65.854	88.170	1.00	100.07	B
ATOM	2102	CA	ALA	B	52	16.643	67.090	88.593	1.00	100.07	B
ATOM	2103	CB	ALA	B	52	16.751	68.046	87.397	1.00	8	

ATOM	1979	C	VAL	B	34	22.737	67.005	58.676	1.00	70.95	B
ATOM	1980	O	VAL	B	34	22.072	67.333	59.657	1.00	70.95	B
ATOM	1981	N	THR	B	35	22.202	66.411	57.609	1.00	92.67	B
ATOM	1982	CA	THR	B	35	20.769	66.136	57.569	1.00	92.67	B
ATOM	1983	CB	THR	B	35	20.329	65.470	56.254	1.00	31.42	B
ATOM	1984	OG1	THR	B	35	20.804	66.240	55.146	1.00	31.42	B
ATOM	1985	CG2	THR	B	35	18.800	65.441	56.171	1.00	31.42	B
ATOM	1986	C	THR	B	35	20.357	65.284	58.756	1.00	92.67	B
ATOM	1987	O	THR	B	35	19.205	65.294	59.170	1.00	92.67	B
ATOM	1988	N	LEU	B	36	21.306	64.533	59.290	1.00	29.62	B
ATOM	1989	CA	LEU	B	36	21.080	63.741	60.496	1.00	29.62	B
ATOM	1990	CB	LEU	B	36	21.480	62.274	60.310	1.00	35.43	B
ATOM	1991	CG	LEU	B	36	20.969	61.455	59.122	1.00	35.43	B
ATOM	1992	CD1	LEU	B	36	21.285	59.989	59.391	1.00	35.43	B
ATOM	1993	CD2	LEU	B	36	19.476	61.644	58.921	1.00	35.43	B
ATOM	1994	C	LEU	B	36	22.121	64.420	61.369	1.00	29.62	B
ATOM	1995	O	LEU	B	36	22.434	65.583	61.138	1.00	29.62	B
ATOM	1996	N	GLY	B	37	22.685	63.722	62.342	1.00	100.07	B
ATOM	1997	CA	GLY	B	37	23.714	64.353	63.147	1.00	100.07	B
ATOM	1998	C	GLY	B	37	23.376	65.699	63.763	1.00	100.07	B
ATOM	1999	O	GLY	B	37	24.056	66.134	64.688	1.00	100.07	B
ATOM	2000	N	ASN	B	38	22.349	66.369	63.252	1.00	74.19	B
ATOM	2001	CA	ASN	B	38	21.927	67.656	63.792	1.00	74.19	B
ATOM	2002	CB	ASN	B	38	21.734	68.669	62.668	1.00	66.42	B
ATOM	2003	CG	ASN	B	38	21.004	69.900	63.128	1.00	66.42	B
ATOM	2004	OD1	ASN	B	38	19.779	69.895	63.254	1.00	66.42	B
ATOM	2005	ND2	ASN	B	38	21.748	70.962	63.399	1.00	66.42	B
ATOM	2006	C	ASN	B	38	20.641	67.489	64.622	1.00	74.19	B
ATOM	2007	O	ASN	B	38	20.634	67.848	65.804	1.00	74.19	B
ATOM	2008	N	PRO	B	39	19.540	66.953	64.023	1.00	63.64	B
ATOM	2009	CD	PRO	B	39	19.280	66.698	62.591	1.00	38.03	B
ATOM	2010	CA	PRO	B	39	18.300	66.762	64.787	1.00	63.64	B
ATOM	2011	CB	PRO	B	39	17.389	66.067	63.778	1.00	38.03	B
ATOM	2012	CG	PRO	B	39	17.756	66.727	62.514	1.00	38.03	B
ATOM	2013	C	PRO	B	39	18.553	65.901	66.036	1.00	63.64	B
ATOM	2014	O	PRO	B	39	17.856	66.026	67.045	1.00	63.64	B
ATOM	2015	N	LEU	B	40	19.556	65.029	65.960	1.00	37.49	B
ATOM	2016	CA	LEU	B	40	19.912	64.169	67.088	1.00	37.49	B
ATOM	2017	CB	LEU	B	40	20.729	62.953	66.623	1.00	37.14	B
ATOM	2018	CG	LEU	B	40	20.066	61.926	65.699	1.00	37.14	B
ATOM	2019	CD1	LEU	B	40	19.043	61.090	66.451	1.00	37.14	B
ATOM	2020	CD2	LEU	B	40	19.425	62.664	64.524	1.00	37.14	B
ATOM	2021	C	LEU	B	40	20.711	64.951	68.131	1.00	37.49	B
ATOM	2022	O	LEU	B	40	21.082	64.419	69.179	1.00	37.49	B
ATOM	2023	N	ALA	B	41	20.997	66.209	67.819	1.00	46.88	B
ATOM	2024	CA	ALA	B	41	21.713	67.088	68.732	1.00	46.88	B
ATOM	2025	CB	ALA	B	41	22.657	68.005	67.956	1.00	38.70	B
ATOM	2026	C	ALA	B	41	20.575	67.892	69.333	1.00	46.88	B
ATOM	2027	O	ALA	B	41	20.412	67.984	70.551	1.00	46.88	B
ATOM	2028	N	ARG	B	42	19.771	68.452	68.443	1.00	83.52	B
ATOM	2029	CA	ARG	B	42	18.626	69.239	68.838	1.00	83.52	B
ATOM	2030	CB	ARG	B	42	17.852	69.664	67.588	1.00	47.50	B
ATOM	2031	CG	ARG	B	42	16.967	70.854	67.795	1.00	47.50	B
ATOM	2032	CD	ARG	B	42	16.745	71.594	66.505	1.00	47.50	B
ATOM	2033	NE	ARG	B	42	16.086	72.869	66.766	1.00	47.50	B
ATOM	2034	CZ	ARG	B	42	16.180	73.943	65.982	1.00	47.50	B
ATOM	2035	NH1	ARG	B	42	16.915	73.896	64.872	1.00	47.50	B
ATOM	2036	NH2	ARG	B	42	15.538	75.068	66.304	1.00	47.50	B
ATOM	2037	C	ARG	B	42	17.763	68.393	69.767	1.00	83.52	B
ATOM	2038	O	ARG	B	42	17.449	68.810	70.880	1.00	83.52	B
ATOM	2039	N	ILE	B	43	17.402	67.193	69.323	1.00	45.38	B
ATOM	2040	CA	ILE	B	43	16.582	66.310	70.144	1.00	45.38	B
ATOM	2041	CB	ILE	B	43	16.111	65.095	69.327	1.00	28.38	B
ATOM	2042	CG2	ILE	B	43	15.238	64.199	70.162	1.00	28.38	B
ATOM	2043	CG1	ILE	B	43	15.302	65.586	68.134	1.00	28.38	B
ATOM	2044	CD	ILE	B	43	14.384	66.738	68.483	1.00	28.38	B
ATOM	2045	C	ILE	B	43	17.365	65.859	71.362	1.00	45.38	B
ATOM	2046	O	ILE	B	43	16.832	65.822	72.461	1.00	45.38	B
ATOM	2047	N	LEU	B	44	18.641	65.546	71.159	1.00	45.50	B
ATOM	2048	CA	LEU	B	44	19.514	65.096	72.235	1.00	45.50	B
ATOM	2049	CB	LEU	B	44	20.947	64.963	71.711	1.00	98.53	B
ATOM	2050	CG	LEU	B	44	21.892	63.909	72.293	1.00	98.53	B
ATOM	2051	CD1	LEU	B	44	21.212	63.119	73.402	1.00	98.53	B
ATOM	2052	CD2	LEU	B	44	22.317	62.980	71.177	1.00	98.53	B
ATOM	2053	C	LEU	B	44	19.486	66.066	73.405	1.00	45.50	B
ATOM	2054	O	LEU	B	44	19.348	65.647	74.557	1.00	45.50	B
ATOM	2055	N	LEU	B	45	19.627	67.359	73.102	1.00	99.98	B
ATOM	2056	CA	LEU	B	45	19.623	68.414	74.119	1.00	99.98	B
ATOM	2057	CB	LEU	B	45	20.164	69.734	73.546	1.00	40.52	B
ATOM	2058	CG	LEU	B	45	21.635	69.861	73.113	1.00	40.52	B
ATOM	2059	CD1	LEU	B	45	21.895	71.293	72.646	1.00	40.52	B
ATOM	2060	CD2	LEU	B	45	22.579	69.500	74.272	1.00	40.52	B
ATOM	2061	C	LEU	B	45	18.213	68.641	74.624	1.00	99.98	B
ATOM	2062	O	LEU	B	45	18.015	69.006	75.781	1.00	99.98	B

ATOM	2147	CB	ILE	B	58	17.664	75.444	103.525	1.00100.07	B
	2148	CG2	ILE	B	58	18.924	75.227	104.360	1.00100.07	B
ATOM	2149	CG1	ILE	B	58	17.849	74.861	102.116	1.00100.07	B
ATOM	2150	CD	ILE	B	58	16.813	75.317	101.116	1.00100.07	B
ATOM	2151	C	ILE	B	58	16.277	75.366	105.619	1.00100.07	B
ATOM	2152	O	ILE	B	58	17.025	76.261	106.026	1.00100.07	B
ATOM	2153	N	GLU	B	59	15.304	74.831	106.352	1.00100.07	B
ATOM	2154	CA	GLU	B	59	14.995	75.268	107.709	1.00100.07	B
ATOM	2155	CB	GLU	B	59	15.542	74.270	108.729	1.00100.07	B
ATOM	2156	CG	GLU	B	59	15.261	74.684	110.174	1.00100.07	B
ATOM	2157	CD	GLU	B	59	13.787	75.006	110.432	1.00100.07	B
ATOM	2158	OE1	GLU	B	59	13.222	75.870	109.724	1.00100.07	B
ATOM	2159	OE2	GLU	B	59	13.195	74.399	111.353	1.00100.07	B
ATOM	2160	C	GLU	B	59	15.462	76.678	108.078	1.00100.07	B
ATOM	2161	O	GLU	B	59	16.634	76.883	108.402	1.00100.07	B
ATOM	2162	N	ASP	B	60	14.522	77.626	108.014	1.00100.07	B
ATOM	2163	CA	ASP	B	60	14.697	79.051	108.350	1.00100.07	B
ATOM	2164	CB	ASP	B	60	16.106	79.341	108.903	1.00100.07	B
ATOM	2165	CG	ASP	B	60	16.198	79.114	110.421	1.00100.07	B
ATOM	2166	OD1	ASP	B	60	15.478	79.798	111.181	1.00100.07	B
ATOM	2167	OD2	ASP	B	60	16.987	78.252	110.858	1.00100.07	B
ATOM	2168	C	ASP	B	60	14.314	80.089	107.269	1.00100.07	B
ATOM	2169	O	ASP	B	60	13.188	80.055	106.757	1.00100.07	B
ATOM	2170	N	VAL	B	61	15.224	81.003	106.922	1.00 30.98	B
ATOM	2171	CA	VAL	B	61	14.915	82.070	105.954	1.00 30.98	B
ATOM	2172	CB	VAL	B	61	16.120	83.004	105.737	1.00 99.92	B
ATOM	2173	CG1	VAL	B	61	15.640	84.320	105.139	1.00 99.92	B
ATOM	2174	CG2	VAL	B	61	16.850	83.236	107.052	1.00 99.92	B
ATOM	2175	C	VAL	B	61	14.423	81.641	104.572	1.00 30.98	B
ATOM	2176	O	VAL	B	61	14.744	80.556	104.077	1.00 30.98	B
ATOM	2177	N	LEU	B	62	13.647	82.522	103.949	1.00 90.28	B
ATOM	2178	CA	LEU	B	62	13.080	82.253	102.636	1.00 90.28	B
ATOM	2179	CB	LEU	B	62	11.783	83.057	102.446	1.00100.07	B
ATOM	2180	CG	LEU	B	62	11.089	83.054	101.074	1.00100.07	B
ATOM	2181	CD1	LEU	B	62	10.931	81.636	100.557	1.00100.07	B
ATOM	2182	CD2	LEU	B	62	9.741	83.742	101.187	1.00100.07	B
ATOM	2183	C	LEU	B	62	14.028	82.520	101.470	1.00 90.28	B
ATOM	2184	O	LEU	B	62	15.025	81.821	101.302	1.00 90.28	B
ATOM	2185	N	HIS	B	63	13.707	83.538	100.676	1.00 50.34	B
ATOM	2186	CA	HIS	B	63	14.475	83.909	99.487	1.00 50.34	B
ATOM	2187	CB	HIS	B	63	14.419	85.434	99.257	1.00100.07	B
ATOM	2188	CG	HIS	B	63	15.116	86.251	100.305	1.00100.07	B
ATOM	218									

ATOM	2231	CG2	ILE	B	68	20.840	78.547	106.831	1.00	99.22	B
ATOM	2232	CG1	ILE	B	68	23.070	78.624	105.675	1.00	99.22	B
ATOM	2233	CD	ILE	B	68	24.567	78.813	105.764	1.00	99.22	B
ATOM	2234	C	ILE	B	68	23.782	80.530	108.144	1.00	43.12	B
ATOM	2235	O	ILE	B	68	24.797	80.913	107.551	1.00	43.12	B
ATOM	2236	N	PRO	B	69	23.774	80.285	109.459	1.00	70.41	B
ATOM	2237	CD	PRO	B	69	22.564	80.388	110.294	1.00	100.07	B
ATOM	2238	CA	PRO	B	69	24.979	80.397	110.284	1.00	70.41	B
ATOM	2239	CB	PRO	B	69	24.468	81.105	111.526	1.00	100.07	B
ATOM	2240	CG	PRO	B	69	23.140	80.455	111.706	1.00	100.07	B
ATOM	2241	C	PRO	B	69	25.594	79.023	110.592	1.00	70.41	B
ATOM	2242	O	PRO	B	69	24.975	77.974	110.366	1.00	70.41	B
ATOM	2243	N	GLY	B	70	26.818	79.039	111.105	1.00	91.68	B
ATOM	2244	CA	GLY	B	70	27.495	77.799	111.420	1.00	91.68	B
ATOM	2245	C	GLY	B	70	27.838	77.080	110.139	1.00	91.68	B
ATOM	2246	O	GLY	B	70	28.435	76.008	110.162	1.00	91.68	B
ATOM	2247	N	VAL	B	71	27.450	77.687	109.019	1.00	100.07	B
ATOM	2248	CA	VAL	B	71	27.707	77.141	107.691	1.00	100.07	B
ATOM	2249	CB	VAL	B	71	26.416	76.679	107.017	1.00	99.79	B
ATOM	2250	CG1	VAL	B	71	26.748	75.750	105.869	1.00	99.79	B
ATOM	2251	CG2	VAL	B	71	25.504	76.016	108.029	1.00	99.79	B
ATOM	2252	C	VAL	B	71	28.334	78.227	106.828	1.00	100.07	B
ATOM	2253	O	VAL	B	71	27.660	79.177	106.425	1.00	100.07	B
ATOM	2254	N	LYS	B	72	29.623	78.074	106.543	1.00	92.37	B
ATOM	2255	CA	LYS	B	72	30.364	79.052	105.756	1.00	92.37	B
ATOM	2256	CB	LYS	B	72	31.840	78.655	105.695	1.00	99.35	B
ATOM	2257	CG	LYS	B	72	32.502	78.707	107.057	1.00	99.35	B
ATOM	2258	CD	LYS	B	72	32.255	80.071	107.708	1.00	99.35	B
ATOM	2259	CE	LYS	B	72	32.632	80.090	109.189	1.00	99.35	B
ATOM	2260	NZ	LYS	B	72	32.395	81.428	109.816	1.00	99.35	B
ATOM	2261	C	LYS	B	72	29.819	79.297	104.355	1.00	92.37	B
ATOM	2262	O	LYS	B	72	29.843	80.421	103.854	1.00	92.37	B
ATOM	2263	N	GLU	B	73	29.315	78.250	103.725	1.00	76.40	B
ATOM	2264	CA	GLU	B	73	28.780	78.391	102.392	1.00	76.40	B
ATOM	2265	CB	GLU	B	73	28.687	77.015	101.766	1.00	93.16	B
ATOM	2266	CG	GLU	B	73	30.060	76.455	101.540	1.00	93.16	B
ATOM	2267	CD	GLU	B	73	30.054	74.997	101.206	1.00	93.16	B
ATOM	2268	OE1	GLU	B	73	29.239	74.575	100.365	1.00	93.16	B
ATOM	2269	OE2	GLU	B	73	30.882	74.271	101.778	1.00	93.16	B
ATOM	2270	C	GLU	B	73	27.436	79.085	102.413	1.00	76.40	B
ATOM	2271	O	GLU	B							

ATOM	2315	CG1	ILE	B	79	19.638	77.959	96.577	1.00	74.38	B
ATOM	2316	CD	ILE	B	79	20.258	78.119	97.955	1.00	74.38	B
ATOM	2317	C	ILE	B	79	21.870	75.589	94.571	1.00	57.29	B
ATOM	2318	O	ILE	B	79	21.400	74.600	94.018	1.00	57.29	B
ATOM	2319	N	LEU	B	80	22.940	76.230	94.121	1.00	99.36	B
ATOM	2320	CA	LEU	B	80	23.629	75.777	92.928	1.00	99.36	B
ATOM	2321	CB	LEU	B	80	24.823	76.671	92.628	1.00	53.04	B
ATOM	2322	CG	LEU	B	80	24.414	78.118	92.392	1.00	53.04	B
ATOM	2323	CD1	LEU	B	80	25.616	78.903	91.898	1.00	53.04	B
ATOM	2324	CD2	LEU	B	80	23.278	78.168	91.373	1.00	53.04	B
ATOM	2325	C	LEU	B	80	24.087	74.342	93.115	1.00	99.36	B
ATOM	2326	O	LEU	B	80	23.738	73.467	92.325	1.00	99.36	B
ATOM	2327	N	ASN	B	81	24.867	74.104	94.164	1.00	53.66	B
ATOM	2328	CA	ASN	B	81	25.363	72.770	94.451	1.00	53.66	B
ATOM	2329	CB	ASN	B	81	25.774	72.670	95.909	1.00	46.42	B
ATOM	2330	CG	ASN	B	81	27.002	73.492	96.221	1.00	46.42	B
ATOM	2331	OD1	ASN	B	81	28.100	73.187	95.748	1.00	46.42	B
ATOM	2332	ND2	ASN	B	81	26.829	74.546	97.022	1.00	46.42	B
ATOM	2333	C	ASN	B	81	24.252	71.775	94.177	1.00	53.66	B
ATOM	2334	O	ASN	B	81	24.300	71.013	93.211	1.00	53.66	B
ATOM	2335	N	LEU	B	82	23.235	71.798	95.024	1.00	89.22	B
ATOM	2336	CA	LEU	B	82	22.120	70.890	94.851	1.00	89.22	B
ATOM	2337	CB	LEU	B	82	20.923	71.322	95.691	1.00	100.07	B
ATOM	2338	CG	LEU	B	82	21.135	71.451	97.195	1.00	100.07	B
ATOM	2339	CD1	LEU	B	82	19.782	71.769	97.825	1.00	100.07	B
ATOM	2340	CD2	LEU	B	82	21.743	70.163	97.782	1.00	100.07	B
ATOM	2341	C	LEU	B	82	21.690	70.839	93.397	1.00	89.22	B
ATOM	2342	O	LEU	B	82	21.331	69.778	92.889	1.00	89.22	B
ATOM	2343	N	LYS	B	83	21.739	71.989	92.730	1.00	68.47	B
ATOM	2344	CA	LYS	B	83	21.317	72.079	91.340	1.00	68.47	B
ATOM	2345	CB	LYS	B	83	21.372	73.532	90.844	1.00	56.25	B
ATOM	2346	CG	LYS	B	83	20.603	73.751	89.557	1.00	56.25	B
ATOM	2347	CD	LYS	B	83	19.744	75.012	89.581	1.00	56.25	B
ATOM	2348	CE	LYS	B	83	20.558	76.290	89.398	1.00	56.25	B
ATOM	2349	NZ	LYS	B	83	19.686	77.513	89.264	1.00	56.25	B
ATOM	2350	C	LYS	B	83	22.146	71.182	90.444	1.00	68.47	B
ATOM	2351	O	LYS	B	83	21.905	71.096	89.239	1.00	68.47	B
ATOM	2352	N	GLU	B	84	23.114	70.496	91.039	1.00	76.12	B
ATOM	2353	CA	GLU	B	84	23.958	69.602	90.271	1.00	76.12	B
ATOM	2354	CB	GLU	B	84	25.357	70.194	90.136	1.00	90.31	B
ATOM	2355	CG	GLU	B	84	26.220	69.540	89.074	1.00	90.31	B
ATOM	2356	CD	GLU	B	84	27.502	70.312	88.847	1.00	90.31	B
ATOM	2357	OE1	GLU	B	84	28.140	70.682	89.851	1.00	90.31	B
ATOM	2358	OE2	GLU	B	84	27.873	70.551	87.678	1.00	90.31	B
ATOM	2359	C	GLU	B	84	24.028	68.227	90.910	1.00	76.12	B
ATOM	2360	O	GLU	B	84	24.938	67.456	90.625	1.00	76.12	B
ATOM	2361	N	LEU	B	85	23.083	67.921	91.793	1.00	100.07	B
ATOM	2362	CA	LEU	B	85	23.062	66.596	92.395	1.00	100.07	B
ATOM	2363	CB	LEU	B	85	22.049	66.515	93.537	1.00	57.77	B
ATOM	2364	CG	LEU	B	85	21.985	65.124	94.184	1.00	57.77	B
ATOM	2365	CD1	LEU	B	85	23.352	64.756	94.747	1.00	57.77	B
ATOM	2366	CD2	LEU	B	85	20.930	65.088	95.281	1.00	57.77	B
ATOM	2367	C	LEU	B	85	22.615	65.708	91.241	1.00	100.07	B
ATOM	2368	O	LEU	B	85	22.203	66.224	90.202	1.00	100.07	B
ATOM	2369	N	VAL	B	86	22.697	64.390	91.397	1.00	99.56	B
ATOM	2370	CA	VAL	B	86	22.271	63.486	90.325	1.00	99.56	B
ATOM	2371	CB	VAL	B	86	23.481	62.905	89.573	1.00	42.86	B
ATOM	2372	CG1	VAL	B	86	23.065	62.469	88.177	1.00	42.86	B
ATOM	2373	CG2	VAL	B	86	24.590	63.924	89.513	1.00	42.86	B
ATOM	2374	C	VAL	B	86	21.470	62.313	90.892	1.00	99.56	B
ATOM	2375	O	VAL	B	86	22.038	61.339	91.398	1.00	99.56	B
ATOM	2376	N	VAL	B	87	20.149	62.411	90.794	1.00	100.07	B
ATOM	2377	CA	VAL	B	87	19.269	61.376	91.306	1.00	100.07	B
ATOM	2378	CB	VAL	B	87	17.961	61.986	91.861	1.00	99.71	B
ATOM	2379	CG1	VAL	B	87	17.043	60.886	92.365	1.00	99.71	B
ATOM	2380	CG2	VAL	B	87	18.275	62.956	92.985	1.00	99.71	B
ATOM	2381	C	VAL	B	87	18.915	60.363	90.238	1.00	100.07	B
ATOM	2382	O	VAL	B	87	18.779	60.710	89.061	1.00	100.07	B
ATOM	2383	N	ARG	B	88	18.775	59.109	90.665	1.00	100.07	B
ATOM	2384	CA	ARG	B	88	18.416	58.008	89.775	1.00	100.07	B
ATOM	2385	CB	ARG	B	88	19.603	57.072	89.570	1.00	100.07	B
ATOM	2386	CG	ARG	B	88	19.301	55.915	88.648	1.00	100.07	B
ATOM	2387	CD	ARG	B	88	20.429	54.931	88.698	1.00	100.07	B
ATOM	2388	NE	ARG	B	88	20.029	53.615	88.221	1.00	100.07	B
ATOM	2389	CZ	ARG	B	88	20.732	52.509	88.443	1.00	100.07	B
ATOM	2390	NH1	ARG	B	88	21.867	52.577	89.135	1.00	100.07	B
ATOM	2391	NH2	ARG	B	88	20.303	51.335	87.984	1.00	100.07	B
ATOM	2392	C	ARG	B	88	17.236	57.222	90.335	1.00	100.07	B
ATOM	2393	O	ARG	B	88	17.420	56.208	91.014	1.00	100.07	B
ATOM	2394	N	PHE	B	89	16.027	57.704	90.050	1.00	100.07	B
ATOM	2395	CA	PHE	B	89	14.810	57.045	90.506	1.00	100.07	B
ATOM	2396	CB	PHE	B	89	13.577	57.694	89.876	1.00	72.11	B
ATOM	2397	CG	PHE	B	89	13.375	59.130	90.269	1.00	72.11	B
ATOM	2398	CD1	PHE	B	89	13.865	59.613	91.484	1.00	72.11	B

ATOM	2399	CD2	PHE	B	89	12.631	59.984	89.458	1.00	72.11	B
ATOM	2400	CE1	PHE	B	89	13.609	60.920	91.884	1.00	72.11	B
ATOM	2401	CE2	PHE	B	89	12.369	61.296	89.849	1.00	72.11	B
ATOM	2402	CZ	PHE	B	89	12.856	61.764	91.062	1.00	72.11	B
ATOM	2403	C	PHE	B	89	14.878	55.583	90.080	1.00	100.07	B
ATOM	2404	O	PHE	B	89	15.720	55.211	89.264	1.00	100.07	B
ATOM	2405	N	LEU	B	90	13.993	54.754	90.619	1.00	100.07	B
ATOM	2406	CA	LEU	B	90	14.003	53.341	90.263	1.00	100.07	B
ATOM	2407	CB	LEU	B	90	14.628	52.522	91.389	1.00	93.06	B
ATOM	2408	CG	LEU	B	90	16.127	52.704	91.604	1.00	93.06	B
ATOM	2409	CD1	LEU	B	90	16.568	51.930	92.851	1.00	93.06	B
ATOM	2410	CD2	LEU	B	90	16.866	52.229	90.356	1.00	93.06	B
ATOM	2411	C	LEU	B	90	12.615	52.805	89.982	1.00	100.07	B
ATOM	2412	O	LEU	B	90	12.437	51.956	89.102	1.00	100.07	B
ATOM	2413	N	ASP	B	91	11.637	53.284	90.748	1.00	100.07	B
ATOM	2414	CA	ASP	B	91	10.253	52.859	90.564	1.00	100.07	B
ATOM	2415	CB	ASP	B	91	9.321	53.600	91.545	1.00	100.07	B
ATOM	2416	CG	ASP	B	91	9.329	52.991	92.948	1.00	100.07	B
ATOM	2417	OD1	ASP	B	91	9.179	51.756	93.064	1.00	100.07	B
ATOM	2418	OD2	ASP	B	91	9.471	53.746	93.937	1.00	100.07	B
ATOM	2419	C	ASP	B	91	9.845	53.161	89.117	1.00	100.07	B
ATOM	2420	O	ASP	B	91	10.682	53.488	88.276	1.00	100.07	B
ATOM	2421	N	PRO	B	92	8.554	53.042	88.801	1.00	99.91	B
ATOM	2422	CD	PRO	B	92	7.463	52.328	89.492	1.00	100.07	B
ATOM	2423	CA	PRO	B	92	8.186	53.333	87.416	1.00	99.91	B
ATOM	2424	CB	PRO	B	92	7.138	52.280	87.132	1.00	100.07	B
ATOM	2425	CG	PRO	B	92	6.360	52.296	88.434	1.00	100.07	B
ATOM	2426	C	PRO	B	92	7.592	54.723	87.345	1.00	99.91	B
ATOM	2427	O	PRO	B	92	7.528	55.342	86.283	1.00	99.91	B
ATOM	2428	N	ARG	B	93	7.136	55.184	88.501	1.00	99.05	B
ATOM	2429	CA	ARG	B	93	6.524	56.490	88.647	1.00	99.05	B
ATOM	2430	CB	ARG	B	93	5.059	56.313	89.046	1.00	100.07	B
ATOM	2431	CG	ARG	B	93	4.286	57.591	89.294	1.00	100.07	B
ATOM	2432	CD	ARG	B	93	3.730	58.184	88.012	1.00	100.07	B
ATOM	2433	NE	ARG	B	93	2.691	59.169	88.314	1.00	100.07	B
ATOM	2434	CZ	ARG	B	93	1.973	59.818	87.400	1.00	100.07	B
ATOM	2435	NH1	ARG	B	93	2.179	59.589	86.106	1.00	100.07	B
ATOM	2436	NH2	ARG	B	93	1.042	60.691	87.779	1.00	100.07	B
ATOM	2437	C	ARG	B	93	7.300	57.174	89.765	1.00	99.05	B
ATOM	2438	O	ARG	B	93	7.943	56.495	90.570	1.00	99.05	B
ATOM	2439	N	TRP	B	94	7.258	58.504	89.815	1.00	100.07	B
ATOM	2440	CA	TRP	B	94	7.968	59.221	90.866	1.00	100.07	B
ATOM	2441	CB	TRP	B	94	9.455	58.871	90.827	1.00	100.07	B
ATOM	2442	CG	TRP	B	94	9.992	58.360	92.132	1.00	100.07	B
ATOM	2443	CD2	TRP	B	94	9.241	57.780	93.201	1.00	100.07	B
ATOM	2444	CE2	TRP	B	94	10.172	57.412	94.210	1.00	100.07	B
ATOM	2445	CE3	TRP	B	94	7.881	57.538	93.426	1.00	100.07	B
ATOM	2446	CD1	TRP	B	94	11.296	58.317	92.511	1.00	100.07	B
ATOM	2447	NE1	TRP	B	94	11.419	57.751	93.754	1.00	100.07	B
ATOM	2448	CZ2	TRP	B	94	9.785	56.805	95.406	1.00	100.07	B
ATOM	2449	CZ3	TRP	B	94	7.489	56.934	94.617	1.00	100.07	B
ATOM	2450	CH2	TRP	B	94	8.444	56.579	95.598	1.00	100.07	B
ATOM	2451	C	TRP	B	94	7.817	60.741	90.843	1.00	100.07	B
ATOM	2452	O	TRP	B	94	7.075	61.297	90.026	1.00	100.07	B
ATOM	2453	N	ARG	B	95	8.552	61.379	91.760	1.00	100.04	B
ATOM	2454	CA	ARG	B	95	8.607	62.831	91.981	1.00	100.04	B
ATOM	2455	CB	ARG	B	95	7.344	63.530	91.450	1.00	100.07	B
ATOM	2456	CG	ARG	B	95	7.514	64.026	90.017	1.00	100.07	B
ATOM	2457	CD	ARG	B	95	6.233	64.517	89.363	1.00	100.07	B
ATOM	2458	NE	ARG	B	95	6.537	65.143	88.075	1.00	100.07	B
ATOM	2459	CZ	ARG	B	95	5.631	65.504	87.169	1.00	100.07	B
ATOM	2460	NH1	ARG	B	95	4.336	65.300	87.402	1.00	100.07	B
ATOM	2461	NH2	ARG	B	95	6.020	66.073	86.030	1.00	100.07	B
ATOM	2462	C	ARG	B	95	8.732	63.047	93.489	1.00	100.04	B
ATOM	2463	O	ARG	B	95	8.072	63.909	94.072	1.00	100.04	B
ATOM	2464	N	THR	B	96	9.602	62.240	94.094	1.00	53.76	B
ATOM	2465	CA	THR	B	96	9.877	62.226	95.532	1.00	53.76	B
ATOM	2466	CB	THR	B	96	10.996	61.214	95.862	1.00	100.07	B
ATOM	2467	OG1	THR	B	96	11.042	60.200	94.852	1.00	100.07	B
ATOM	2468	CG2	THR	B	96	10.738	60.558	97.209	1.00	100.07	B
ATOM	2469	C	THR	B	96	10.283	63.528	96.198	1.00	53.76	B
ATOM	2470	O	THR	B	96	9.967	64.620	95.736	1.00	53.76	B
ATOM	2471	N	THR	B	97	10.992	63.375	97.309	1.00	66.01	B
ATOM	2472	CA	THR	B	97	11.477	64.489	98.109	1.00	66.01	B
ATOM	2473	CB	THR	B	97	10.568	64.756	99.333	1.00	84.61	B
ATOM	2474	OG1	THR	B	97	9.191	64.675	98.942	1.00	84.61	B
ATOM	2475	CG2	THR	B	97	10.839	66.143	99.901	1.00	84.61	B
ATOM	2476	C	THR	B	97	12.828	64.041	98.618	1.00	66.01	B
ATOM	2477	O	THR	B	97	13.371	63.045	98.138	1.00	66.01	B
ATOM	2478	N	LEU	B	98	13.358	64.766	99.595	1.00	90.84	B
ATOM	2479	CA	LEU	B	98	14.645	64.432	100.179	1.00	90.84	B
ATOM	2480	CB	LEU	B	98	15.766	64.668	99.171	1.00	100.07	B
ATOM	2481	CG	LEU	B	98	16.072	63.438	98.317	1.00	100.07	B
ATOM	2482	CD1	LEU	B	98	17.106	63.793	97.265	1.00	100.07	B

ATOM	2483	CD2	LEU	B	98	16.553	62.298	99.214	1.00	100.07	B
ATOM	2484	C	LEU	B	98	14.936	65.189	101.459	1.00	90.84	B
ATOM	2485	O	LEU	B	98	14.724	66.400	101.570	1.00	90.84	B
ATOM	2486	N	ILE	B	99	15.443	64.443	102.426	1.00	100.07	B
ATOM	2487	CA	ILE	B	99	15.764	64.996	103.715	1.00	100.07	B
ATOM	2488	CB	ILE	B	99	15.091	64.178	104.816	1.00	82.57	B
ATOM	2489	CG2	ILE	B	99	15.535	64.666	106.177	1.00	82.57	B
ATOM	2490	CG1	ILE	B	99	13.574	64.276	104.658	1.00	82.57	B
ATOM	2491	CD	ILE	B	99	13.049	65.709	104.586	1.00	82.57	B
ATOM	2492	C	ILE	B	99	17.258	65.039	103.958	1.00	100.07	B
ATOM	2493	O	ILE	B	99	18.018	64.203	103.473	1.00	100.07	B
ATOM	2494	N	LEU	B	100	17.661	66.048	104.711	1.00	94.32	B
ATOM	2495	CA	LEU	B	100	19.046	66.254	105.075	1.00	94.32	B
ATOM	2496	CB	LEU	B	100	19.776	67.066	104.001	1.00	96.49	B
ATOM	2497	CG	LEU	B	100	21.262	67.353	104.253	1.00	96.49	B
ATOM	2498	CD1	LEU	B	100	22.084	66.077	104.097	1.00	96.49	B
ATOM	2499	CD2	LEU	B	100	21.742	68.412	103.281	1.00	96.49	B
ATOM	2500	C	LEU	B	100	18.921	67.072	106.336	1.00	94.32	B
ATOM	2501	O	LEU	B	100	18.637	68.261	106.265	1.00	94.32	B
ATOM	2502	N	ARG	B	101	19.099	66.428	107.484	1.00	100.07	B
ATOM	2503	CA	ARG	B	101	18.996	67.124	108.756	1.00	100.07	B
ATOM	2504	CB	ARG	B	101	17.862	66.541	109.600	1.00	100.07	B
ATOM	2505	CG	ARG	B	101	16.645	66.117	108.811	1.00	100.07	B
ATOM	2506	CD	ARG	B	101	15.767	65.207	109.654	1.00	100.07	B
ATOM	2507	NE	ARG	B	101	14.936	64.329	108.833	1.00	100.07	B
ATOM	2508	CZ	ARG	B	101	14.128	63.392	109.319	1.00	100.07	B
ATOM	2509	NH1	ARG	B	101	14.037	63.209	110.630	1.00	100.07	B
ATOM	2510	NH2	ARG	B	101	13.411	62.636	108.493	1.00	100.07	B
ATOM	2511	C	ARG	B	101	20.302	66.991	109.522	1.00	100.07	B
ATOM	2512	O	ARG	B	101	20.391	67.439	110.663	1.00	100.07	B
ATOM	2513	N	ALA	B	102	21.311	66.366	108.917	1.00	84.36	B
ATOM	2514	CA	ALA	B	102	22.595	66.238	109.602	1.00	84.36	B
ATOM	2515	CB	ALA	B	102	23.664	65.684	108.668	1.00	31.29	B
ATOM	2516	C	ALA	B	102	22.951	67.654	110.027	1.00	84.36	B
ATOM	2517	O	ALA	B	102	22.259	68.604	109.659	1.00	84.36	B
ATOM	2518	N	ALA	B	103	24.021	67.816	110.790	1.00	98.79	B
ATOM	2519	CA	ALA	B	103	24.378	69.152	111.235	1.00	98.79	B
ATOM	2520	CB	ALA	B	103	23.258	69.718	112.084	1.00	36.97	B
ATOM	2521	C	ALA	B	103	25.663	69.114	112.033	1.00	98.79	B
ATOM	2522	O	ALA	B	103	26.061	70.105	112.646	1.00	98.79	B
ATOM											

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ATOM	2567	NH2	ARG	B	109	34.422	65.301	103.860	1.00100.07	B
ATOM	2568	C	ARG	B	109	27.177	64.938	100.448	1.00 92.03	B
ATOM	2569	O	ARG	B	109	27.539	63.777	100.629	1.00 92.03	B
ATOM	2570	N	ALA	B	110	26.094	65.269	99.745	1.00100.07	B
ATOM	2571	CA	ALA	B	110	25.198	64.291	99.121	1.00100.07	B
ATOM	2572	CB	ALA	B	110	25.788	63.809	97.803	1.00 80.83	B
ATOM	2573	C	ALA	B	110	24.821	63.091	99.994	1.00100.07	B
ATOM	2574	O	ALA	B	110	23.686	63.005	100.453	1.00100.07	B
ATOM	2575	N	VAL	B	111	25.763	62.166	100.203	1.00100.07	B
ATOM	2576	CA	VAL	B	111	25.545	60.957	101.022	1.00100.07	B
ATOM	2577	CB	VAL	B	111	26.891	60.379	101.574	1.00 71.79	B
ATOM	2578	CG1	VAL	B	111	26.628	59.239	102.561	1.00 71.79	B
ATOM	2579	CG2	VAL	B	111	27.743	59.878	100.433	1.00 71.79	B
ATOM	2580	C	VAL	B	111	24.627	61.166	102.230	1.00100.07	B
ATOM	2581	O	VAL	B	111	23.600	60.501	102.381	1.00100.07	B
ATOM	2582	N	ASP	B	112	25.019	62.091	103.092	1.00 86.11	B
ATOM	2583	CA	ASP	B	112	24.280	62.404	104.304	1.00 86.11	B
ATOM	2584	CB	ASP	B	112	25.011	63.522	105.052	1.00100.07	B
ATOM	2585	CG	ASP	B	112	26.533	63.410	104.938	1.00100.07	B
ATOM	2586	OD1	ASP	B	112	27.230	64.364	105.352	1.00100.07	B
ATOM	2587	OD2	ASP	B	112	27.036	62.376	104.438	1.00100.07	B
ATOM	2588	C	ASP	B	112	22.838	62.835	104.011	1.00 86.11	B
ATOM	2589	O	ASP	B	112	22.119	63.285	104.904	1.00 86.11	B
ATOM	2590	N	PHE	B	113	22.416	62.681	102.761	1.00100.07	B
ATOM	2591	CA	PHE	B	113	21.078	63.086	102.335	1.00100.07	B
ATOM	2592	CB	PHE	B	113	21.080	63.361	100.826	1.00 90.11	B
ATOM	2593	CG	PHE	B	113	20.489	64.683	100.447	1.00 90.11	B
ATOM	2594	CD1	PHE	B	113	20.974	65.859	100.997	1.00 90.11	B
ATOM	2595	CD2	PHE	B	113	19.466	64.758	99.516	1.00 90.11	B
ATOM	2596	CE1	PHE	B	113	20.448	67.093	100.623	1.00 90.11	B
ATOM	2597	CE2	PHE	B	113	18.934	65.989	99.135	1.00 90.11	B
ATOM	2598	CZ	PHE	B	113	19.427	67.156	99.689	1.00 90.11	B
ATOM	2599	C	PHE	B	113	19.949	62.105	102.655	1.00100.07	B
ATOM	2600	O	PHE	B	113	19.202	61.717	101.756	1.00100.07	B
ATOM	2601	N	THR	B	114	19.813	61.711	103.920	1.00100.07	B
ATOM	2602	CA	THR	B	114	18.742	60.789	104.315	1.00100.07	B
ATOM	2603	CB	THR	B	114	17.361	61.486	104.238	1.00 88.84	B
ATOM	2604	OG1	THR	B	114	17.280	62.487	105.258	1.00 88.84	B
ATOM	2605	CG2	THR	B	114	16.229	60.486	104.412	1.00 88.84	B
ATOM	2606	C	THR	B	114	18.704	59.555	103.409	1.00100.07	B
ATOM	2607	O	THR	B	114	18.027	59.555	102.379	1.00100.07	B
ATOM	2608	N	PRO	B	115	19.409	58.477	103.798	1.00 99.99	B
ATOM	2609	CD	PRO	B	115	20.172	58.342	105.052	1.00100.07	B
ATOM	2610	CA	PRO	B	115	19.467	57.231	103.021	1.00 99.99	B
ATOM	2611	CB	PRO	B	115	20.439	56.364	103.825	1.00100.07	B
ATOM	2612	CG	PRO	B	115	20.235	56.840	105.223	1.00100.07	B
ATOM	2613	C	PRO	B	115	18.169	56.495	102.696	1.00 99.99	B
ATOM	2614	O	PRO	B	115	17.844	55.486	103.319	1.00 99.99	B
ATOM	2615	N	SER	B	116	17.452	56.995	101.693	1.00100.07	B
ATOM	2616	CA	SER	B	116	16.196	56.402	101.246	1.00100.07	B
ATOM	2617	CB	SER	B	116	15.185	57.509	100.928	1.00 61.15	B
ATOM	2618	OG	SER	B	116	14.031	56.989	100.286	1.00 61.15	B
ATOM	2619	C	SER	B	116	16.414	55.533	100.001	1.00100.07	B
ATOM	2620	O	SER	B	116	17.012	55.977	99.022	1.00100.07	B
ATOM	2621	N	ALA	B	117	15.940	54.290	100.046	1.00 67.48	B
ATOM	2622	CA	ALA	B	117	16.071	53.394	98.904	1.00 67.48	B
ATOM	2623	CB	ALA	B	117	15.756	51.942	99.309	1.00 19.78	B
ATOM	2624	C	ALA	B	117	15.080	53.894	97.864	1.00 67.48	B
ATOM	2625	O	ALA	B	117	14.692	55.060	97.903	1.00 67.48	B
ATOM	2626	N	ASP	B	118	14.666	53.021	96.948	1.00 81.51	B
ATOM	2627	CA	ASP	B	118	13.727	53.380	95.879	1.00 81.51	B
ATOM	2628	CB	ASP	B	118	12.296	53.561	96.428	1.00 99.81	B
ATOM	2629	CG	ASP	B	118	12.189	54.653	97.481	1.00 99.81	B
ATOM	2630	OD1	ASP	B	118	12.482	54.391	98.670	1.00 99.81	B
ATOM	2631	OD2	ASP	B	118	11.809	55.782	97.110	1.00 99.81	B
ATOM	2632	C	ASP	B	118	14.169	54.632	95.117	1.00 81.51	B
ATOM	2633	O	ASP	B	118	13.482	55.097	94.202	1.00 81.51	B
ATOM	2634	N	VAL	B	119	15.326	55.163	95.506	1.00 99.55	B
ATOM	2635	CA	VAL	B	119	15.917	56.345	94.886	1.00 99.55	B
ATOM	2636	CB	VAL	B	119	15.337	57.668	95.467	1.00 47.33	B
ATOM	2637	CG1	VAL	B	119	15.695	58.823	94.556	1.00 47.33	B
ATOM	2638	CG2	VAL	B	119	13.830	57.580	95.614	1.00 47.33	B
ATOM	2639	C	VAL	B	119	17.419	56.317	95.168	1.00 99.55	B
ATOM	2640	O	VAL	B	119	17.832	56.326	96.327	1.00 99.55	B
ATOM	2641	N	GLU	B	120	18.232	56.268	94.115	1.00100.07	B
ATOM	2642	CA	GLU	B	120	19.686	56.242	94.281	1.00100.07	B
ATOM	2643	CB	GLU	B	120	20.347	55.297	93.259	1.00100.07	B
ATOM	2644	CG	GLU	B	120	20.584	53.863	93.765	1.00100.07	B
ATOM	2645	CD	GLU	B	120	21.693	53.132	92.999	1.00100.07	B
ATOM	2646	OE1	GLU	B	120	22.851	53.609	93.029	1.00100.07	B
ATOM	2647	OE2	GLU	B	120	21.410	52.082	92.373	1.00100.07	B
ATOM	2648	C	GLU	B	120	20.334	57.622	94.176	1.00100.07	B
ATOM	2649	O	GLU	B	120	19.760	58.562	93.617	1.00100.07	B
ATOM	2650	N	ILE	B	121	21.540	57.722	94.730	1.00 86.75	B

ATOM	2651	CA	ILE	B	121	22.320	58.952	94.725	1.00	86.75	B
ATOM	2652	CB	ILE	B	121	22.667	59.395	96.176	1.00	60.89	B
ATOM	2653	CG2	ILE	B	121	23.796	60.419	96.169	1.00	60.89	B
ATOM	2654	CG1	ILE	B	121	21.408	59.954	96.864	1.00	60.89	B
ATOM	2655	CD	ILE	B	121	20.766	61.159	96.164	1.00	60.89	B
ATOM	2656	C	ILE	B	121	23.593	58.669	93.948	1.00	86.75	B
ATOM	2657	O	ILE	B	121	24.635	58.360	94.526	1.00	86.75	B
ATOM	2658	N	MET	B	122	23.483	58.756	92.628	1.00	68.28	B
ATOM	2659	CA	MET	B	122	24.607	58.510	91.736	1.00	68.28	B
ATOM	2660	CB	MET	B	122	24.272	59.014	90.331	1.00	100.07	B
ATOM	2661	CG	MET	B	122	24.003	57.901	89.333	1.00	100.07	B
ATOM	2662	SD	MET	B	122	22.975	56.597	90.026	1.00	100.07	B
ATOM	2663	CE	MET	B	122	24.226	55.365	90.479	1.00	100.07	B
ATOM	2664	C	MET	B	122	25.891	59.178	92.235	1.00	68.28	B
ATOM	2665	O	MET	B	122	26.891	58.508	92.514	1.00	68.28	B
ATOM	2666	N	ASN	B	123	25.857	60.501	92.341	1.00	99.82	B
ATOM	2667	CA	ASN	B	123	27.009	61.257	92.807	1.00	99.82	B
ATOM	2668	CB	ASN	B	123	27.095	62.579	92.045	1.00	54.79	B
ATOM	2669	CG	ASN	B	123	25.800	63.352	92.084	1.00	54.79	B
ATOM	2670	OD1	ASN	B	123	24.718	62.769	92.119	1.00	54.79	B
ATOM	2671	ND2	ASN	B	123	25.900	64.673	92.058	1.00	54.79	B
ATOM	2672	C	ASN	B	123	26.908	61.495	94.314	1.00	99.82	B
ATOM	2673	O	ASN	B	123	26.147	62.348	94.773	1.00	99.82	B
ATOM	2674	N	PRO	B	124	27.699	60.743	95.098	1.00	35.86	B
ATOM	2675	CD	PRO	B	124	28.697	59.817	94.528	1.00	100.07	B
ATOM	2676	CA	PRO	B	124	27.800	60.747	96.562	1.00	35.86	B
ATOM	2677	CB	PRO	B	124	28.588	59.484	96.840	1.00	100.07	B
ATOM	2678	CG	PRO	B	124	29.581	59.509	95.726	1.00	100.07	B
ATOM	2679	C	PRO	B	124	28.453	61.931	97.208	1.00	35.86	B
ATOM	2680	O	PRO	B	124	27.993	62.399	98.241	1.00	35.86	B
ATOM	2681	N	ASP	B	125	29.550	62.386	96.620	1.00	100.07	B
ATOM	2682	CA	ASP	B	125	30.287	63.514	97.160	1.00	100.07	B
ATOM	2683	CB	ASP	B	125	31.677	63.542	96.541	1.00	100.07	B
ATOM	2684	CG	ASP	B	125	32.258	62.150	96.400	1.00	100.07	B
ATOM	2685	OD1	ASP	B	125	31.872	61.267	97.195	1.00	100.07	B
ATOM	2686	OD2	ASP	B	125	33.096	61.932	95.504	1.00	100.07	B
ATOM	2687	C	ASP	B	125	29.525	64.795	96.873	1.00	100.07	B
ATOM	2688	O	ASP	B	125	28.635	65.159	97.639	1.00	100.07	B
ATOM	2689	N	LEU	B	126	29.842	65.465	95.770	1.00	99.82	B
ATOM	2690	CA	LEU	B	126	29.157	66.711	95.441	1.00	99.82	B
ATOM	2691	CB	LEU	B	126	27.736	66.440	94.950	1.00	92.04	B
ATOM	2692	CG	LEU	B	126	26.955	67.718	94.631	1.00	92.04	B
ATOM	2693	CD1	LEU	B	126	27.485	68.342	93.347	1.00	92.04	B
ATOM	2694	CD2	LEU	B	126	25.485	67.397	94.491	1.00	92.04	B
ATOM	2695	C	LEU	B	126	29.098	67.545	96.714	1.00	99.82	B
ATOM	2696	O	LEU	B	126	28.062	67.603	97.378	1.00	99.82	B
ATOM	2697	N	HIS	B	127	30.213	68.187	97.043	1.00	68.55	B
ATOM	2698	CA	HIS	B	127	30.334	68.991	98.251	1.00	68.55	B
ATOM	2699	CB	HIS	B	127	31.320	70.123	98.019	1.00	100.07	B
ATOM	2700	CG	HIS	B	127	31.805	70.734	99.290	1.00	100.07	B
ATOM	2701	CD2	HIS	B	127	33.002	70.653	99.919	1.00	100.07	B
ATOM	2702	ND1	HIS	B	127	30.976	71.443	100.132	1.00	100.07	B
ATOM	2703	CE1	HIS	B	127	31.640	71.767	101.227	1.00	100.07	B
ATOM	2704	NE2	HIS	B	127	32.872	71.300	101.124	1.00	100.07	B
ATOM	2705	C	HIS	B	127	29.088	69.566	98.933	1.00	68.55	B
ATOM	2706	O	HIS	B	127	29.066	69.676	100.151	1.00	68.55	B
ATOM	2707	N	ILE	B	128	28.063	69.933	98.174	1.00	100.07	B
ATOM	2708	CA	ILE	B	128	26.829	70.503	98.737	1.00	100.07	B
ATOM	2709	CB	ILE	B	128	25.911	69.420	99.377	1.00	98.44	B
ATOM	2710	CG2	ILE	B	128	24.688	70.087	100.028	1.00	98.44	B
ATOM	2711	CG1	ILE	B	128	25.426	68.448	98.291	1.00	98.44	B
ATOM	2712	CD	ILE	B	128	24.313	67.505	98.725	1.00	98.44	B
ATOM	2713	C	ILE	B	128	27.018	71.661	99.728	1.00	100.07	B
ATOM	2714	O	ILE	B	128	26.510	72.760	99.488	1.00	100.07	B
ATOM	2715	N	ALA	B	129	27.721	71.432	100.835	1.00	55.59	B
ATOM	2716	CA	ALA	B	129	27.953	72.499	101.801	1.00	55.59	B
ATOM	2717	CB	ALA	B	129	26.619	73.108	102.249	1.00	17.18	B
ATOM	2718	C	ALA	B	129	28.785	72.115	103.016	1.00	55.59	B
ATOM	2719	O	ALA	B	129	28.753	70.975	103.487	1.00	55.59	B
ATOM	2720	N	THR	B	130	29.530	73.101	103.511	1.00	98.41	B
ATOM	2721	CA	THR	B	130	30.400	72.962	104.678	1.00	98.41	B
ATOM	2722	CB	THR	B	130	31.868	73.431	104.348	1.00	63.09	B
ATOM	2723	OG1	THR	B	130	32.586	72.385	103.676	1.00	63.09	B
ATOM	2724	CG2	THR	B	130	32.615	73.823	105.613	1.00	63.09	B
ATOM	2725	C	THR	B	130	29.835	73.820	105.823	1.00	98.41	B
ATOM	2726	O	THR	B	130	29.439	74.973	105.621	1.00	98.41	B
ATOM	2727	N	LEU	B	131	29.780	73.241	107.018	1.00	76.18	B
ATOM	2728	CA	LEU	B	131	29.298	73.950	108.199	1.00	76.18	B
ATOM	2729	CB	LEU	B	131	27.789	73.742	108.390	1.00	99.38	B
ATOM	2730	CG	LEU	B	131	27.202	72.343	108.600	1.00	99.38	B
ATOM	2731	CD1	LEU	B	131	25.750	72.447	109.035	1.00	99.38	B
ATOM	2732	CD2	LEU	B	131	27.307	71.557	107.319	1.00	99.38	B
ATOM	2733	C	LEU	B	131	30.066	73.470	109.438	1.00	76.18	B
ATOM	2734	O	LEU	B	131	30.284	72.269	109.617	1.00	76.18	B

ATOM	2735	N	GLU	B	132	30.475	74.417	110.283	1.00	97.11	B
ATOM	2736	CA	GLU	B	132	31.255	74.123	111.486	1.00	97.11	B
ATOM	2737	CB	GLU	B	132	32.533	74.981	111.482	1.00	100.00	B
ATOM	2738	CG	GLU	B	132	33.555	74.656	112.575	1.00	100.00	B
ATOM	2739	CD	GLU	B	132	34.748	75.610	112.586	1.00	100.00	B
ATOM	2740	OE1	GLU	B	132	35.586	75.552	111.658	1.00	100.00	B
ATOM	2741	OE2	GLU	B	132	34.845	76.423	113.530	1.00	100.00	B
ATOM	2742	C	GLU	B	132	30.470	74.372	112.769	1.00	97.11	B
ATOM	2743	O	GLU	B	132	29.253	74.529	112.721	1.00	97.11	B
ATOM	2744	N	GLU	B	133	31.187	74.411	113.898	1.00	80.07	B
ATOM	2745	CA	GLU	B	133	30.617	74.621	115.235	1.00	80.07	B
ATOM	2746	CB	GLU	B	133	30.981	76.006	115.796	1.00	100.07	B
ATOM	2747	CG	GLU	B	133	32.189	75.989	116.753	1.00	100.07	B
ATOM	2748	CD	GLU	B	133	32.288	77.233	117.655	1.00	100.07	B
ATOM	2749	OE1	GLU	B	133	31.285	77.575	118.330	1.00	100.07	B
ATOM	2750	OE2	GLU	B	133	33.374	77.859	117.701	1.00	100.07	B
ATOM	2751	C	GLU	B	133	29.116	74.438	115.274	1.00	80.07	B
ATOM	2752	O	GLU	B	133	28.625	73.426	115.764	1.00	80.07	B
ATOM	2753	N	GLY	B	134	28.388	75.422	114.760	1.00	100.07	B
ATOM	2754	CA	GLY	B	134	26.943	75.316	114.728	1.00	100.07	B
ATOM	2755	C	GLY	B	134	26.552	74.003	114.073	1.00	100.07	B
ATOM	2756	O	GLY	B	134	27.403	73.183	113.716	1.00	100.07	B
ATOM	2757	N	GLY	B	135	25.256	73.795	113.915	1.00	82.84	B
ATOM	2758	CA	GLY	B	135	24.799	72.571	113.299	1.00	82.84	B
ATOM	2759	C	GLY	B	135	23.382	72.791	112.835	1.00	82.84	B
ATOM	2760	O	GLY	B	135	22.486	72.022	113.165	1.00	82.84	B
ATOM	2761	N	LYS	B	136	23.175	73.874	112.097	1.00	100.07	B
ATOM	2762	CA	LYS	B	136	21.855	74.186	111.564	1.00	100.07	B
ATOM	2763	CB	LYS	B	136	21.897	75.511	110.784	1.00	99.93	B
ATOM	2764	CG	LYS	B	136	21.306	76.691	111.515	1.00	99.93	B
ATOM	2765	CD	LYS	B	136	19.839	76.447	111.797	1.00	99.93	B
ATOM	2766	CE	LYS	B	136	19.267	77.505	112.716	1.00	99.93	B
ATOM	2767	NZ	LYS	B	136	17.844	77.213	113.027	1.00	99.93	B
ATOM	2768	C	LYS	B	136	21.464	73.048	110.621	1.00	100.07	B
ATOM	2769	O	LYS	B	136	21.312	71.895	111.036	1.00	100.07	B
ATOM	2770	N	LEU	B	137	21.293	73.393	109.350	1.00	98.57	B
ATOM	2771	CA	LEU	B	137	20.974	72.424	108.322	1.00	98.57	B
ATOM	2772	CB	LEU	B	137	21.786	71.149	108.557	1.00	100.07	B
ATOM	2773	CG	LEU	B	137	22.513	70.536	107.362	1.00	100.07	B
ATOM	2774	CD1	LEU	B	137	21.497	70.114	106.316	1.00	100.07	B
ATOM	2775	CD2	LEU	B	137	23.509	71.538	106.785	1.00	100.07	B
ATOM	2776	C	LEU	B	137	19.509	72.062	108.158	1.00	98.57	B
ATOM	2777	O	LEU	B	137	18.635	72.925	108.038	1.00	98.57	B
ATOM	2778	N	TYR	B	138	19.270	70.758	108.165	1.00	93.30	B
ATOM	2779	CA	TYR	B	138	17.955	70.177	107.964	1.00	93.30	B
ATOM	2780	CB	TYR	B	138	17.083	70.282	109.216	1.00	100.07	B
ATOM	2781	CG	TYR	B	138	15.841	69.401	109.163	1.00	100.07	B
ATOM	2782	CD1	TYR	B	138	15.311	68.831	110.326	1.00	100.07	B
ATOM	2783	CE1	TYR	B	138	14.121	68.096	110.290	1.00	100.07	B
ATOM	2784	CD2	TYR	B	138	15.152	69.200	107.962	1.00	100.07	B
ATOM	2785	CE2	TYR	B	138	13.975	68.474	107.919	1.00	100.07	B
ATOM	2786	CZ	TYR	B	138	13.456	67.929	109.078	1.00	100.07	B
ATOM	2787	OH	TYR	B	138	12.252	67.257	109.023	1.00	100.07	B
ATOM	2788	C	TYR	B	138	17.275	70.792	106.752	1.00	93.30	B
ATOM	2789	O	TYR	B	138	16.477	71.731	106.850	1.00	93.30	B
ATOM	2790	N	MET	B	139	17.631	70.240	105.599	1.00	55.15	B
ATOM	2791	CA	MET	B	139	17.089	70.663	104.331	1.00	55.15	B
ATOM	2792	CB	MET	B	139	18.193	70.789	103.283	1.00	80.40	B
ATOM	2793	CG	MET	B	139	19.147	71.949	103.447	1.00	80.40	B
ATOM	2794	SD	MET	B	139	19.904	72.301	101.841	1.00	80.40	B
ATOM	2795	CE	MET	B	139	21.380	71.247	101.910	1.00	80.40	B
ATOM	2796	C	MET	B	139	16.108	69.607	103.863	1.00	55.15	B
ATOM	2797	O	MET	B	139	16.340	68.406	104.037	1.00	55.15	B
ATOM	2798	N	GLU	B	140	15.017	70.068	103.265	1.00	77.01	B
ATOM	2799	CA	GLU	B	140	13.997	69.186	102.732	1.00	77.01	B
ATOM	2800	CB	GLU	B	140	12.729	69.274	103.582	1.00	82.89	B
ATOM	2801	CG	GLU	B	140	13.000	68.994	105.054	1.00	82.89	B
ATOM	2802	CD	GLU	B	140	11.743	68.800	105.872	1.00	82.89	B
ATOM	2803	OE1	GLU	B	140	10.858	69.677	105.824	1.00	82.89	B
ATOM	2804	OE2	GLU	B	140	11.645	67.771	106.570	1.00	82.89	B
ATOM	2805	C	GLU	B	140	13.756	69.644	101.305	1.00	77.01	B
ATOM	2806	O	GLU	B	140	12.992	70.574	101.044	1.00	77.01	B
ATOM	2807	N	VAL	B	141	14.446	68.985	100.386	1.00	92.65	B
ATOM	2808	CA	VAL	B	141	14.359	69.322	98.979	1.00	92.65	B
ATOM	2809	CB	VAL	B	141	15.766	69.498	98.379	1.00	100.07	B
ATOM	2810	CG1	VAL	B	141	16.551	68.198	98.494	1.00	100.07	B
ATOM	2811	CG2	VAL	B	141	15.659	69.928	96.933	1.00	100.07	B
ATOM	2812	C	VAL	B	141	13.606	68.280	98.162	1.00	92.65	B
ATOM	2813	O	VAL	B	141	13.829	67.072	98.286	1.00	92.65	B
ATOM	2814	N	ARG	B	142	12.705	68.770	97.323	1.00	100.07	B
ATOM	2815	CA	ARG	B	142	11.932	67.911	96.451	1.00	100.07	B
ATOM	2816	CB	ARG	B	142	10.620	68.591	96.034	1.00	100.07	B
ATOM	2817	CG	ARG	B	142	10.609	70.116	96.158	1.00	100.07	B
ATOM	2818	CD	ARG	B	142	10.544	70.568	97.632	1.00	100.07	B

ATOM	2819	NE	ARG	B	142	10.382	72.019	97.785	1.00100.07	B
ATOM	2820	CZ	ARG	B	142	10.316	72.652	98.957	1.00100.07	B
ATOM	2821	NH1	ARG	B	142	10.399	71.965	100.089	1.00100.07	B
ATOM	2822	NH2	ARG	B	142	10.168	73.971	99.001	1.00100.07	B
ATOM	2823	C	ARG	B	142	12.771	67.626	95.226	1.00100.07	B
ATOM	2824	O	ARG	B	142	13.922	68.046	95.138	1.00100.07	B
ATOM	2825	N	VAL	B	143	12.197	66.888	94.291	1.00100.07	B
ATOM	2826	CA	VAL	B	143	12.869	66.565	93.044	1.00100.07	B
ATOM	2827	CB	VAL	B	143	13.654	65.222	93.138	1.00 61.67	B
ATOM	2828	CG1	VAL	B	143	14.587	65.088	91.954	1.00 61.67	B
ATOM	2829	CG2	VAL	B	143	14.480	65.172	94.425	1.00 61.67	B
ATOM	2830	C	VAL	B	143	11.693	66.476	92.072	1.00100.07	B
ATOM	2831	O	VAL	B	143	10.574	66.841	92.442	1.00100.07	B
ATOM	2832	N	ASP	B	144	11.924	66.007	90.851	1.00 95.21	B
ATOM	2833	CA	ASP	B	144	10.846	65.926	89.867	1.00 95.21	B
ATOM	2834	CB	ASP	B	144	10.515	67.329	89.344	1.00 72.03	B
ATOM	2835	CG	ASP	B	144	9.111	67.775	89.695	1.00 72.03	B
ATOM	2836	OD1	ASP	B	144	8.828	67.943	90.900	1.00 72.03	B
ATOM	2837	OD2	ASP	B	144	8.292	67.961	88.769	1.00 72.03	B
ATOM	2838	C	ASP	B	144	11.207	65.049	88.672	1.00 95.21	B
ATOM	2839	O	ASP	B	144	12.376	64.724	88.456	1.00 95.21	B
ATOM	2840	N	ARG	B	145	10.191	64.659	87.904	1.00100.07	B
ATOM	2841	CA	ARG	B	145	10.410	63.881	86.691	1.00100.07	B
ATOM	2842	CB	ARG	B	145	9.142	63.134	86.261	1.00 99.83	B
ATOM	2843	CG	ARG	B	145	8.137	63.998	85.489	1.00 99.83	B
ATOM	2844	CD	ARG	B	145	7.010	63.161	84.877	1.00 99.83	B
ATOM	2845	NE	ARG	B	145	6.077	63.960	84.075	1.00 99.83	B
ATOM	2846	CZ	ARG	B	145	4.988	63.473	83.475	1.00 99.83	B
ATOM	2847	NH1	ARG	B	145	4.684	62.186	83.580	1.00 99.83	B
ATOM	2848	NH2	ARG	B	145	4.195	64.274	82.769	1.00 99.83	B
ATOM	2849	C	ARG	B	145	10.654	65.037	85.735	1.00100.07	B
ATOM	2850	O	ARG	B	145	10.125	66.128	85.961	1.00100.07	B
ATOM	2851	N	GLY	B	146	11.422	64.827	84.672	1.00 98.78	B
ATOM	2852	CA	GLY	B	146	11.685	65.944	83.783	1.00 98.78	B
ATOM	2853	C	GLY	B	146	11.575	65.771	82.286	1.00 98.78	B
ATOM	2854	O	GLY	B	146	10.806	64.953	81.787	1.00 98.78	B
ATOM	2855	N	VAL	B	147	12.360	66.577	81.577	1.00 42.75	B
ATOM	2856	CA	VAL	B	147	12.412	66.600	80.112	1.00 42.75	B
ATOM	2857	CB	VAL	B	147	11.075	67.070	79.506	1.00100.07	B
ATOM	2858	CG1	VAL	B	147	10.278	65.878	79.025	1.00100.07	B
ATOM	2859	CG2	VAL	B	147	10.276	67.864	80.548	1.00100.07	B
ATOM	2860	C	VAL	B	147	13.490	67.610	79.738	1.00 42.75	B
ATOM	2861	O	VAL	B	147	14.608	67.517	80.226	1.00 42.75	B
ATOM	2862	N	GLY	B	148	13.153	68.584	78.899	1.00 59.44	B
ATOM	2863	CA	GLY	B	148	14.124	69.601	78.532	1.00 59.44	B
ATOM	2864	C	GLY	B	148	14.693	70.368	79.721	1.00 59.44	B
ATOM	2865	O	GLY	B	148	15.242	69.767	80.648	1.00 59.44	B
ATOM	2866	N	TYR	B	149	14.574	71.696	79.697	1.00 61.94	B
ATOM	2867	CA	TYR	B	149	15.084	72.552	80.783	1.00 61.94	B
ATOM	2868	CB	TYR	B	149	16.250	73.427	80.288	1.00 40.16	B
ATOM	2869	CG	TYR	B	149	17.066	74.178	81.346	1.00 40.16	B
ATOM	2870	CD1	TYR	B	149	18.019	73.518	82.119	1.00 40.16	B
ATOM	2871	CE1	TYR	B	149	18.853	74.224	83.004	1.00 40.16	B
ATOM	2872	CD2	TYR	B	149	16.958	75.571	81.493	1.00 40.16	B
ATOM	2873	CE2	TYR	B	149	17.792	76.289	82.378	1.00 40.16	B
ATOM	2874	CZ	TYR	B	149	18.739	75.605	83.128	1.00 40.16	B
ATOM	2875	OH	TYR	B	149	19.576	76.283	83.998	1.00 40.16	B
ATOM	2876	C	TYR	B	149	13.950	73.465	81.216	1.00 61.94	B
ATOM	2877	O	TYR	B	149	13.169	73.911	80.381	1.00 61.94	B
ATOM	2878	N	VAL	B	150	13.845	73.724	82.516	1.00 99.87	B
ATOM	2879	CA	VAL	B	150	12.824	74.629	83.036	1.00 99.87	B
ATOM	2880	CB	VAL	B	150	11.508	73.938	83.379	1.00 90.50	B
ATOM	2881	CG1	VAL	B	150	10.516	74.987	83.887	1.00 90.50	B
ATOM	2882	CG2	VAL	B	150	10.953	73.226	82.161	1.00 90.50	B
ATOM	2883	C	VAL	B	150	13.328	75.286	84.313	1.00 99.87	B
ATOM	2884	O	VAL	B	150	13.768	74.615	85.247	1.00 99.87	B
ATOM	2885	N	PRO	B	151	13.253	76.619	84.371	1.00100.07	B
ATOM	2886	CD	PRO	B	151	13.023	77.508	83.215	1.00 74.65	B
ATOM	2887	CA	PRO	B	151	13.710	77.381	85.532	1.00100.07	B
ATOM	2888	CB	PRO	B	151	14.412	78.552	84.881	1.00 74.65	B
ATOM	2889	CG	PRO	B	151	13.440	78.880	83.752	1.00 74.65	B
ATOM	2890	C	PRO	B	151	12.600	77.848	86.466	1.00100.07	B
ATOM	2891	O	PRO	B	151	11.637	77.126	86.726	1.00100.07	B
ATOM	2892	N	ALA	B	152	12.767	79.073	86.964	1.00 59.87	B
ATOM	2893	CA	ALA	B	152	11.803	79.716	87.851	1.00 59.87	B
ATOM	2894	CB	ALA	B	152	12.429	80.935	88.505	1.00100.07	B
ATOM	2895	C	ALA	B	152	10.555	80.126	87.052	1.00 59.87	B
ATOM	2896	O	ALA	B	152	10.185	81.308	86.957	1.00 59.87	B
ATOM	2897	N	GLU	B	153	9.942	79.111	86.455	1.00100.07	B
ATOM	2898	CA	GLU	B	153	8.720	79.230	85.669	1.00100.07	B
ATOM	2899	CB	GLU	B	153	8.982	78.839	84.212	1.00 88.53	B
ATOM	2900	CG	GLU	B	153	7.738	78.417	83.439	1.00 88.53	B
ATOM	2901	CD	GLU	B	153	6.629	79.446	83.505	1.00 88.53	B
ATOM	2902	OE1	GLU	B	153	6.884	80.616	83.160	1.00 88.53	B

ATOM	2903	OE2	GLU	B	153	5.500	79.086	83.898	1.00	88.53	B
ATOM	2904	C	GLU	B	153	7.821	78.185	86.324	1.00	100.07	B
ATOM	2905	O	GLU	B	153	6.604	78.349	86.459	1.00	100.07	B
ATOM	2906	N	ARG	B	154	8.468	77.099	86.726	1.00	89.73	B
ATOM	2907	CA	ARG	B	154	7.811	76.002	87.398	1.00	89.73	B
ATOM	2908	CB	ARG	B	154	8.359	74.676	86.871	1.00	100.07	B
ATOM	2909	CG	ARG	B	154	7.792	73.455	87.555	1.00	100.07	B
ATOM	2910	CD	ARG	B	154	7.363	72.400	86.546	1.00	100.07	B
ATOM	2911	NE	ARG	B	154	6.815	71.222	87.213	1.00	100.07	B
ATOM	2912	CZ	ARG	B	154	6.216	70.216	86.587	1.00	100.07	B
ATOM	2913	NH1	ARG	B	154	6.081	70.239	85.266	1.00	100.07	B
ATOM	2914	NH2	ARG	B	154	5.756	69.188	87.286	1.00	100.07	B
ATOM	2915	C	ARG	B	154	8.163	76.184	88.871	1.00	89.73	B
ATOM	2916	O	ARG	B	154	9.236	75.772	89.331	1.00	89.73	B
ATOM	2917	N	HIS	B	155	7.238	76.815	89.588	1.00	81.81	B
ATOM	2918	CA	HIS	B	155	7.382	77.134	91.006	1.00	81.81	B
ATOM	2919	CB	HIS	B	155	6.327	78.176	91.384	1.00	100.07	B
ATOM	2920	CG	HIS	B	155	5.950	79.084	90.252	1.00	100.07	B
ATOM	2921	CD2	HIS	B	155	4.746	79.552	89.844	1.00	100.07	B
ATOM	2922	ND1	HIS	B	155	6.879	79.607	89.378	1.00	100.07	B
ATOM	2923	CE1	HIS	B	155	6.264	80.355	88.479	1.00	100.07	B
ATOM	2924	NE2	HIS	B	155	4.969	80.338	88.739	1.00	100.07	B
ATOM	2925	C	HIS	B	155	7.331	75.958	91.987	1.00	81.81	B
ATOM	2926	O	HIS	B	155	6.701	74.932	91.720	1.00	81.81	B
ATOM	2927	N	GLY	B	156	8.010	76.132	93.123	1.00	78.05	B
ATOM	2928	CA	GLY	B	156	8.060	75.111	94.158	1.00	78.05	B
ATOM	2929	C	GLY	B	156	6.987	75.314	95.213	1.00	78.05	B
ATOM	2930	O	GLY	B	156	7.278	75.574	96.378	1.00	78.05	B
ATOM	2931	N	ILE	B	157	5.733	75.192	94.785	1.00	100.07	B
ATOM	2932	CA	ILE	B	157	4.583	75.351	95.666	1.00	100.07	B
ATOM	2933	CB	ILE	B	157	3.276	74.823	94.995	1.00	83.13	B
ATOM	2934	CG2	ILE	B	157	2.063	75.472	95.639	1.00	83.13	B
ATOM	2935	CG1	ILE	B	157	3.253	75.165	93.503	1.00	83.13	B
ATOM	2936	CD	ILE	B	157	3.110	76.638	93.196	1.00	83.13	B
ATOM	2937	C	ILE	B	157	4.817	74.567	96.962	1.00	100.07	B
ATOM	2938	O	ILE	B	157	4.783	75.139	98.047	1.00	100.07	B
ATOM	2939	N	LYS	B	158	5.062	73.262	96.827	1.00	100.07	B
ATOM	2940	CA	LYS	B	158	5.302	72.353	97.953	1.00	100.07	B
ATOM	2941	CB	LYS	B	158	6.715	71.773	97.885	1.00	99.97	B
ATOM	2942	CG	LYS	B	158	6.765	70.380	97.301	1.00	99.97	B
ATOM	2943	CD	LYS	B	158	7.549	69.436	98.190	1.00	99.97	B
ATOM	2944	CE	LYS	B	158	7.530	68.029	97.618	1.00	99.97	B
ATOM	2945	NZ	LYS	B	158	8.255	67.062	98.482	1.00	99.97	B
ATOM	2946	C	LYS	B	158	5.076	72.916	99.354	1.00	100.07	B
ATOM	2947	O	LYS	B	158	3.934	73.086	99.786	1.00	100.07	B
ATOM	2948	N	ASP	B	159	6.178	73.174	100.060	1.00	83.66	B
ATOM	2949	CA	ASP	B	159	6.164	73.723	101.420	1.00	83.66	B
ATOM	2950	CB	ASP	B	159	7.601	73.816	101.958	1.00	85.27	B
ATOM	2951	CG	ASP	B	159	7.675	74.397	103.367	1.00	85.27	B
ATOM	2952	OD1	ASP	B	159	7.208	73.722	104.310	1.00	85.27	B
ATOM	2953	OD2	ASP	B	159	8.206	75.525	103.529	1.00	85.27	B
ATOM	2954	C	ASP	B	159	5.550	75.122	101.407	1.00	83.66	B
ATOM	2955	O	ASP	B	159	5.956	75.989	102.178	1.00	83.66	B
ATOM	2956	N	ARG	B	160	4.581	75.334	100.520	1.00	80.11	B
ATOM	2957	CA	ARG	B	160	3.902	76.619	100.385	1.00	80.11	B
ATOM	2958	CB	ARG	B	160	3.040	76.901	101.622	1.00	100.07	B
ATOM	2959	CG	ARG	B	160	2.240	75.714	102.162	1.00	100.07	B
ATOM	2960	CD	ARG	B	160	1.668	76.058	103.536	1.00	100.07	B
ATOM	2961	NE	ARG	B	160	1.012	74.935	104.200	1.00	100.07	B
ATOM	2962	CZ	ARG	B	160	0.587	74.967	105.461	1.00	100.07	B
ATOM	2963	NH1	ARG	B	160	0.751	76.063	106.191	1.00	100.07	B
ATOM	2964	NH2	ARG	B	160	-0.001	73.905	105.996	1.00	100.07	B
ATOM	2965	C	ARG	B	160	4.933	77.725	100.241	1.00	80.11	B
ATOM	2966	O	ARG	B	160	5.280	78.126	99.129	1.00	80.11	B
ATOM	2967	N	ILE	B	161	5.403	78.233	101.379	1.00	100.07	B
ATOM	2968	CA	ILE	B	161	6.423	79.263	101.361	1.00	100.07	B
ATOM	2969	CB	ILE	B	161	5.817	80.686	101.585	1.00	93.92	B
ATOM	2970	CG2	ILE	B	161	6.914	81.701	101.919	1.00	93.92	B
ATOM	2971	CG1	ILE	B	161	5.092	81.117	100.298	1.00	93.92	B
ATOM	2972	CD	ILE	B	161	4.737	82.588	100.223	1.00	93.92	B
ATOM	2973	C	ILE	B	161	7.639	78.996	102.240	1.00	100.07	B
ATOM	2974	O	ILE	B	161	7.548	78.840	103.460	1.00	100.07	B
ATOM	2975	N	ASN	B	162	8.767	78.921	101.534	1.00	100.07	B
ATOM	2976	CA	ASN	B	162	10.119	78.653	102.024	1.00	100.07	B
ATOM	2977	CB	ASN	B	162	10.114	77.925	103.377	1.00	87.12	B
ATOM	2978	CG	ASN	B	162	9.859	78.855	104.552	1.00	87.12	B
ATOM	2979	OD1	ASN	B	162	10.393	79.968	104.627	1.00	87.12	B
ATOM	2980	ND2	ASN	B	162	9.049	78.389	105.489	1.00	87.12	B
ATOM	2981	C	ASN	B	162	10.683	77.717	100.949	1.00	100.07	B
ATOM	2982	O	ASN	B	162	11.729	77.077	101.108	1.00	100.07	B
ATOM	2983	N	ALA	B	163	9.955	77.661	99.842	1.00	85.63	B
ATOM	2984	CA	ALA	B	163	10.297	76.816	98.718	1.00	85.63	B
ATOM	2985	CB	ALA	B	163	9.130	76.789	97.745	1.00	66.82	B
ATOM	2986	C	ALA	B	163	11.575	77.194	97.975	1.00	85.63	B

ATOM	2987	O	ALA	B	163	12.384	76.318	97.646	1.00	85.63	B
ATOM	2988	N	ILE	B	164	11.755	78.489	97.717	1.00	83.16	B
ATOM	2989	CA	ILE	B	164	12.914	78.972	96.964	1.00	83.16	B
ATOM	2990	CB	ILE	B	164	14.184	79.126	97.855	1.00	54.32	B
ATOM	2991	CG2	ILE	B	164	13.875	80.052	99.028	1.00	54.32	B
ATOM	2992	CG1	ILE	B	164	14.678	77.763	98.348	1.00	54.32	B
ATOM	2993	CD	ILE	B	164	16.115	77.780	98.826	1.00	54.32	B
ATOM	2994	C	ILE	B	164	13.199	77.979	95.831	1.00	83.16	B
ATOM	2995	O	ILE	B	164	14.308	77.455	95.703	1.00	83.16	B
ATOM	2996	N	PRO	B	165	12.188	77.724	94.982	1.00	89.68	B
ATOM	2997	CD	PRO	B	165	10.966	78.534	94.853	1.00	34.51	B
ATOM	2998	CA	PRO	B	165	12.291	76.797	93.855	1.00	89.68	B
ATOM	2999	CB	PRO	B	165	10.987	77.035	93.096	1.00	34.51	B
ATOM	3000	CG	PRO	B	165	10.694	78.458	93.371	1.00	34.51	B
ATOM	3001	C	PRO	B	165	13.531	76.951	92.975	1.00	89.68	B
ATOM	3002	O	PRO	B	165	13.738	77.969	92.311	1.00	89.68	B
ATOM	3003	N	VAL	B	166	14.349	75.909	92.990	1.00	93.92	B
ATOM	3004	CA	VAL	B	166	15.572	75.852	92.215	1.00	93.92	B
ATOM	3005	CB	VAL	B	166	16.404	74.635	92.638	1.00	34.28	B
ATOM	3006	CG1	VAL	B	166	17.695	74.570	91.845	1.00	34.28	B
ATOM	3007	CG2	VAL	B	166	16.691	74.705	94.124	1.00	34.28	B
ATOM	3008	C	VAL	B	166	15.209	75.699	90.747	1.00	93.92	B
ATOM	3009	O	VAL	B	166	14.030	75.601	90.398	1.00	93.92	B
ATOM	3010	N	ASP	B	167	16.224	75.680	89.888	1.00	54.81	B
ATOM	3011	CA	ASP	B	167	16.001	75.515	88.460	1.00	54.81	B
ATOM	3012	CB	ASP	B	167	17.027	76.309	87.649	1.00	79.60	B
ATOM	3013	CG	ASP	B	167	16.789	77.801	87.714	1.00	79.60	B
ATOM	3014	OD1	ASP	B	167	15.643	78.220	87.437	1.00	79.60	B
ATOM	3015	OD2	ASP	B	167	17.744	78.546	88.037	1.00	79.60	B
ATOM	3016	C	ASP	B	167	16.089	74.042	88.102	1.00	54.81	B
ATOM	3017	O	ASP	B	167	16.657	73.231	88.840	1.00	54.81	B
ATOM	3018	N	ALA	B	168	15.533	73.699	86.953	1.00	35.06	B
ATOM	3019	CA	ALA	B	168	15.530	72.319	86.520	1.00	35.06	B
ATOM	3020	CB	ALA	B	168	14.148	71.957	86.055	1.00	82.11	B
ATOM	3021	C	ALA	B	168	16.536	71.986	85.431	1.00	35.06	B
ATOM	3022	O	ALA	B	168	16.595	72.639	84.390	1.00	35.06	B
ATOM	3023	N	ILE	B	169	17.314	70.945	85.672	1.00	64.88	B
ATOM	3024	CA	ILE	B	169	18.298	70.515	84.709	1.00	64.88	B
ATOM	3025	CB	ILE	B	169	19.728	70.753	85.232	1.00	96.76	B
ATOM	3026	CG2	ILE	B	169	20.131	72.181	84.980	1.00	96.76	B
ATOM	3027	CG1	ILE	B	169	19.813	70.443	86.730	1.00	96.76	B
ATOM	3028	CD	ILE	B	169	19.959	68.976	87.076	1.00	96.76	B
ATOM	3029	C	ILE	B	169	18.111	69.048	84.410	1.00	64.88	B
ATOM	3030	O	ILE	B	169	19.037	68.259	84.571	1.00	64.88	B
ATOM	3031	N	PHE	B	170	16.906	68.665	83.998	1.00	36.37	B
ATOM	3032	CA	PHE	B	170	16.683	67.265	83.656	1.00	36.37	B
ATOM	3033	CB	PHE	B	170	15.251	66.815	83.946	1.00	77.26	B
ATOM	3034	CG	PHE	B	170	14.299	67.930	84.272	1.00	77.26	B
ATOM	3035	CD1	PHE	B	170	13.755	68.717	83.264	1.00	77.26	B
ATOM	3036	CD2	PHE	B	170	13.869	68.131	85.584	1.00	77.26	B
ATOM	3037	CE1	PHE	B	170	12.784	69.682	83.557	1.00	77.26	B
ATOM	3038	CE2	PHE	B	170	12.904	69.089	85.880	1.00	77.26	B
ATOM	3039	CZ	PHE	B	170	12.359	69.864	84.863	1.00	77.26	B
ATOM	3040	C	PHE	B	170	17.009	67.059	82.197	1.00	36.37	B
ATOM	3041	O	PHE	B	170	16.539	67.801	81.350	1.00	36.37	B
ATOM	3042	N	SER	B	171	17.841	66.051	81.951	1.00	62.92	B
ATOM	3043	CA	SER	B	171	18.358	65.651	80.640	1.00	62.92	B
ATOM	3044	CB	SER	B	171	18.434	66.831	79.657	1.00	62.68	B
ATOM	3045	OG	SER	B	171	17.176	67.196	79.129	1.00	62.68	B
ATOM	3046	C	SER	B	171	19.786	65.250	80.962	1.00	62.92	B
ATOM	3047	O	SER	B	171	20.656	66.109	81.037	1.00	62.92	B
ATOM	3048	N	PRO	B	172	20.048	63.960	81.206	1.00	94.48	B
ATOM	3049	CD	PRO	B	172	19.176	62.890	81.712	1.00	90.02	B
ATOM	3050	CA	PRO	B	172	21.449	63.660	81.501	1.00	94.48	B
ATOM	3051	CB	PRO	B	172	21.388	62.238	82.024	1.00	90.02	B
ATOM	3052	CG	PRO	B	172	20.071	62.220	82.728	1.00	90.02	B
ATOM	3053	C	PRO	B	172	22.345	63.828	80.254	1.00	94.48	B
ATOM	3054	O	PRO	B	172	23.250	63.029	80.000	1.00	94.48	B
ATOM	3055	N	VAL	B	173	22.057	64.872	79.473	1.00	92.81	B
ATOM	3056	CA	VAL	B	173	22.833	65.224	78.284	1.00	92.81	B
ATOM	3057	CB	VAL	B	173	22.018	65.161	76.960	1.00	51.56	B
ATOM	3058	CG1	VAL	B	173	21.733	63.730	76.600	1.00	51.56	B
ATOM	3059	CG2	VAL	B	173	20.733	65.957	77.084	1.00	51.56	B
ATOM	3060	C	VAL	B	173	23.348	66.648	78.451	1.00	92.81	B
ATOM	3061	O	VAL	B	173	22.621	67.618	78.231	1.00	92.81	B
ATOM	3062	N	ARG	B	174	24.601	66.766	78.873	1.00	100.07	B
ATOM	3063	CA	ARG	B	174	25.228	68.067	79.045	1.00	100.07	B
ATOM	3064	CB	ARG	B	174	26.141	68.072	80.270	1.00	100.07	B
ATOM	3065	CG	ARG	B	174	25.640	67.291	81.482	1.00	100.07	B
ATOM	3066	CD	ARG	B	174	25.106	68.215	82.555	1.00	100.07	B
ATOM	3067	NE	ARG	B	174	24.912	67.536	83.830	1.00	100.07	B
ATOM	3068	CZ	ARG	B	174	24.206	68.043	84.835	1.00	100.07	B
ATOM	3069	NH1	ARG	B	174	23.631	69.232	84.699	1.00	100.07	B
ATOM	3070	NH2	ARG	B	174	24.078	67.368	85.972	1.00	100.07	B

ATOM	3071	C	ARG	B	174	26.097	68.212	77.803	1.00100.07	B
ATOM	3072	O	ARG	B	174	27.015	67.416	77.607	1.00100.07	B
ATOM	3073	N	ARG	B	175	25.796	69.182	76.945	1.00 74.17	B
ATOM	3074	CA	ARG	B	175	26.609	69.394	75.746	1.00 74.17	B
ATOM	3075	CB	ARG	B	175	28.078	69.481	76.168	1.00 38.79	B
ATOM	3076	CG	ARG	B	175	29.043	69.844	75.084	1.00 38.79	B
ATOM	3077	CD	ARG	B	175	30.429	70.017	75.644	1.00 38.79	B
ATOM	3078	NE	ARG	B	175	31.346	70.404	74.587	1.00 38.79	B
ATOM	3079	CZ	ARG	B	175	32.663	70.394	74.709	1.00 38.79	B
ATOM	3080	NH1	ARG	B	175	33.219	70.018	75.851	1.00 38.79	B
ATOM	3081	NH2	ARG	B	175	33.423	70.740	73.682	1.00 38.79	B
ATOM	3082	C	ARG	B	175	26.457	68.356	74.625	1.00 74.17	B
ATOM	3083	O	ARG	B	175	26.337	67.167	74.894	1.00 74.17	B
ATOM	3084	N	VAL	B	176	26.481	68.827	73.374	1.00 73.32	B
ATOM	3085	CA	VAL	B	176	26.354	67.986	72.168	1.00 73.32	B
ATOM	3086	CB	VAL	B	176	24.870	67.629	71.870	1.00 75.21	B
ATOM	3087	CG1	VAL	B	176	24.740	66.997	70.486	1.00 75.21	B
ATOM	3088	CG2	VAL	B	176	24.342	66.675	72.922	1.00 75.21	B
ATOM	3089	C	VAL	B	176	26.924	68.687	70.919	1.00 73.32	B
ATOM	3090	O	VAL	B	176	26.322	69.634	70.403	1.00 73.32	B
ATOM	3091	N	ALA	B	177	28.072	68.213	70.436	1.00100.07	B
ATOM	3092	CA	ALA	B	177	28.715	68.785	69.248	1.00100.07	B
ATOM	3093	CB	ALA	B	177	29.906	69.654	69.661	1.00100.07	B
ATOM	3094	C	ALA	B	177	29.175	67.684	68.281	1.00100.07	B
ATOM	3095	O	ALA	B	177	29.308	66.525	68.679	1.00100.07	B
ATOM	3096	N	PHE	B	178	29.441	68.051	67.025	1.00 43.26	B
ATOM	3097	CA	PHE	B	178	29.835	67.070	66.013	1.00 43.26	B
ATOM	3098	CB	PHE	B	178	28.632	66.240	65.639	1.00 35.05	B
ATOM	3099	CG	PHE	B	178	27.584	67.029	64.936	1.00 35.05	B
ATOM	3100	CD1	PHE	B	178	27.631	67.202	63.564	1.00 35.05	B
ATOM	3101	CD2	PHE	B	178	26.580	67.650	65.653	1.00 35.05	B
ATOM	3102	CE1	PHE	B	178	26.683	67.987	62.915	1.00 35.05	B
ATOM	3103	CE2	PHE	B	178	25.634	68.435	65.014	1.00 35.05	B
ATOM	3104	CZ	PHE	B	178	25.683	68.606	63.641	1.00 35.05	B
ATOM	3105	C	PHE	B	178	30.310	67.741	64.739	1.00 43.26	B
ATOM	3106	O	PHE	B	178	29.889	68.850	64.435	1.00 43.26	B
ATOM	3107	N	GLN	B	179	31.136	67.051	63.959	1.00 38.06	B
ATOM	3108	CA	GLN	B	179	31.611	67.643	62.714	1.00 38.06	B
ATOM	3109	CB	GLN	B	179	32.986	68.313	62.899	1.00100.07	B
ATOM	3110	CG	GLN	B	179	34.162	67.389	63.204	1.00100.07	B
ATOM	3111	CD	GLN	B	179	35.513	68.090	63.038	1.00100.07	B
ATOM	3112	OE1	GLN	B	179	35.650	69.279	63.337	1.00100.07	B
ATOM	3113	NE2	GLN	B	179	36.516	67.350	62.574	1.00100.07	B
ATOM	3114	C	GLN	B	179	31.659	66.744	61.494	1.00 38.06	B
ATOM	3115	O	GLN	B	179	32.255	65.671	61.518	1.00 38.06	B
ATOM	3116	N	VAL	B	180	31.049	67.227	60.416	1.00 32.81	B
ATOM	3117	CA	VAL	B	180	30.958	66.509	59.154	1.00 32.81	B
ATOM	3118	CB	VAL	B	180	29.708	66.997	58.367	1.00 57.30	B
ATOM	3119	CG1	VAL	B	180	29.811	68.502	58.089	1.00 57.30	B
ATOM	3120	CG2	VAL	B	180	29.548	66.195	57.084	1.00 57.30	B
ATOM	3121	C	VAL	B	180	32.217	66.620	58.278	1.00 32.81	B
ATOM	3122	O	VAL	B	180	32.298	67.459	57.374	1.00 32.81	B
ATOM	3123	N	GLU	B	181	33.189	65.751	58.550	1.00 53.70	B
ATOM	3124	CA	GLU	B	181	34.448	65.718	57.814	1.00 53.70	B
ATOM	3125	CB	GLU	B	181	35.491	64.914	58.573	1.00100.07	B
ATOM	3126	CG	GLU	B	181	36.276	65.714	59.569	1.00100.07	B
ATOM	3127	CD	GLU	B	181	37.403	64.901	60.167	1.00100.07	B
ATOM	3128	OE1	GLU	B	181	37.112	63.883	60.837	1.00100.07	B
ATOM	3129	OE2	GLU	B	181	38.580	65.276	59.959	1.00100.07	B
ATOM	3130	C	GLU	B	181	34.358	65.164	56.401	1.00 53.70	B
ATOM	3131	O	GLU	B	181	33.310	65.167	55.771	1.00 53.70	B
ATOM	3132	N	ASP	B	182	35.481	64.673	55.910	1.00 62.55	B
ATOM	3133	CA	ASP	B	182	35.517	64.133	54.576	1.00 62.55	B
ATOM	3134	CB	ASP	B	182	36.163	65.152	53.647	1.00 38.34	B
ATOM	3135	CG	ASP	B	182	35.158	66.105	53.079	1.00 38.34	B
ATOM	3136	OD1	ASP	B	182	33.967	65.850	53.352	1.00 38.34	B
ATOM	3137	OD2	ASP	B	182	35.534	67.074	52.365	1.00 38.34	B
ATOM	3138	C	ASP	B	182	36.195	62.775	54.422	1.00 62.55	B
ATOM	3139	O	ASP	B	182	37.403	62.693	54.183	1.00 62.55	B
ATOM	3140	N	THR	B	183	35.423	61.702	54.575	1.00 47.37	B
ATOM	3141	CA	THR	B	183	35.984	60.369	54.399	1.00 47.37	B
ATOM	3142	CB	THR	B	183	35.006	59.252	54.821	1.00 99.56	B
ATOM	3143	OG1	THR	B	183	34.865	59.248	56.245	1.00 99.56	B
ATOM	3144	CG2	THR	B	183	35.525	57.894	54.375	1.00 99.56	B
ATOM	3145	C	THR	B	183	36.194	60.313	52.888	1.00 47.37	B
ATOM	3146	O	THR	B	183	35.378	60.844	52.113	1.00 47.37	B
ATOM	3147	N	ARG	B	184	37.277	59.671	52.461	1.00 59.20	B
ATOM	3148	CA	ARG	B	184	37.554	59.632	51.041	1.00 59.20	B
ATOM	3149	CB	ARG	B	184	38.788	60.510	50.720	1.00100.07	B
ATOM	3150	CG	ARG	B	184	39.992	60.404	51.680	1.00100.07	B
ATOM	3151	CD	ARG	B	184	41.190	61.266	51.203	1.00100.07	B
ATOM	3152	NE	ARG	B	184	42.352	61.199	52.101	1.00100.07	B
ATOM	3153	CZ	ARG	B	184	43.544	61.740	51.840	1.00100.07	B
ATOM	3154	NH1	ARG	B	184	43.747	62.394	50.701	1.00100.07	B

ATOM	3155	NH2	ARG	B	184	44.534	61.633	52.721	1.00100.07	B
ATOM	3156	C	ARG	B	184	37.633	58.367	50.219	1.00 59.20	B
ATOM	3157	O	ARG	B	184	38.097	58.418	49.084	1.00 59.20	B
ATOM	3158	N	LEU	B	185	37.191	57.236	50.748	1.00100.07	B
ATOM	3159	CA	LEU	B	185	37.232	56.028	49.937	1.00100.07	B
ATOM	3160	CB	LEU	B	185	37.320	54.768	50.811	1.00100.07	B
ATOM	3161	CG	LEU	B	185	37.645	53.426	50.121	1.00100.07	B
ATOM	3162	CD1	LEU	B	185	38.340	53.635	48.765	1.00100.07	B
ATOM	3163	CD2	LEU	B	185	38.521	52.594	51.060	1.00100.07	B
ATOM	3164	C	LEU	B	185	35.957	56.062	49.124	1.00100.07	B
ATOM	3165	O	LEU	B	185	35.588	57.137	48.645	1.00100.07	B
ATOM	3166	N	GLY	B	186	35.260	54.933	48.994	1.00 99.96	B
ATOM	3167	CA	GLY	B	186	34.074	54.934	48.156	1.00 99.96	B
ATOM	3168	C	GLY	B	186	34.675	55.719	47.009	1.00 99.96	B
ATOM	3169	O	GLY	B	186	35.829	55.470	46.633	1.00 99.96	B
ATOM	3170	N	GLN	B	187	33.943	56.673	46.455	1.00 99.57	B
ATOM	3171	CA	GLN	B	187	34.557	57.492	45.428	1.00 99.57	B
ATOM	3172	CB	GLN	B	187	34.412	56.898	44.023	1.00100.07	B
ATOM	3173	CG	GLN	B	187	35.795	56.577	43.378	1.00100.07	B
ATOM	3174	CD	GLN	B	187	36.923	57.556	43.791	1.00100.07	B
ATOM	3175	OE1	GLN	B	187	37.484	57.466	44.891	1.00100.07	B
ATOM	3176	NE2	GLN	B	187	37.245	58.488	42.902	1.00100.07	B
ATOM	3177	C	GLN	B	187	34.179	58.950	45.440	1.00 99.57	B
ATOM	3178	O	GLN	B	187	33.039	59.332	45.721	1.00 99.57	B
ATOM	3179	N	ARG	B	188	35.195	59.743	45.129	1.00 99.66	B
ATOM	3180	CA	ARG	B	188	35.143	61.188	45.132	1.00 99.66	B
ATOM	3181	CB	ARG	B	188	33.701	61.725	45.252	1.00100.07	B
ATOM	3182	CG	ARG	B	188	32.757	61.473	44.071	1.00100.07	B
ATOM	3183	CD	ARG	B	188	31.370	62.082	44.347	1.00100.07	B
ATOM	3184	NE	ARG	B	188	30.927	62.984	43.280	1.00100.07	B
ATOM	3185	CZ	ARG	B	188	29.800	63.692	43.314	1.00100.07	B
ATOM	3186	NH1	ARG	B	188	28.997	63.605	44.365	1.00100.07	B
ATOM	3187	NH2	ARG	B	188	29.470	64.477	42.293	1.00100.07	B
ATOM	3188	C	ARG	B	188	35.886	61.498	46.422	1.00 99.66	B
ATOM	3189	O	ARG	B	188	36.796	60.768	46.823	1.00 99.66	B
ATOM	3190	N	THR	B	189	35.474	62.573	47.076	1.00 98.98	B
ATOM	3191	CA	THR	B	189	36.058	62.983	48.333	1.00 98.98	B
ATOM	3192	CB	THR	B	189	37.406	63.686	48.114	1.00 51.63	B
ATOM	3193	OG1	THR	B	189	37.983	63.237	46.881	1.00 51.63	B
ATOM	3194	CG2	THR	B	189	38.369	63.355	49.257	1.00 51.63	B
ATOM	3195	C	THR	B	189	35.031	63.960	48.857	1.00 98.98	B
ATOM	3196	O	THR	B	189	35.329	64.845	49.653	1.00 98.98	B
ATOM	3197	N	ASP	B	190	33.809	63.789	48.366	1.00 43.16	B
ATOM	3198	CA	ASP	B	190	32.688	64.614	48.765	1.00 43.16	B
ATOM	3199	CB	ASP	B	190	31.751	64.831	47.586	1.00 79.99	B
ATOM	3200	CG	ASP	B	190	32.479	65.324	46.361	1.00 79.99	B
ATOM	3201	OD1	ASP	B	190	33.289	66.263	46.502	1.00 79.99	B
ATOM	3202	OD2	ASP	B	190	32.240	64.783	45.257	1.00 79.99	B
ATOM	3203	C	ASP	B	190	31.948	63.919	49.901	1.00 43.16	B
ATOM	3204	O	ASP	B	190	31.161	64.545	50.621	1.00 43.16	B
ATOM	3205	N	LEU	B	191	32.240	62.631	50.072	1.00 54.68	B
ATOM	3206	CA	LEU	B	191	31.609	61.788	51.083	1.00 54.68	B
ATOM	3207	CB	LEU	B	191	32.085	60.363	50.871	1.00 32.62	B
ATOM	3208	CG	LEU	B	191	31.728	59.969	49.439	1.00 32.62	B
ATOM	3209	CD1	LEU	B	191	32.125	58.538	49.153	1.00 32.62	B
ATOM	3210	CD2	LEU	B	191	30.240	60.144	49.247	1.00 32.62	B
ATOM	3211	C	LEU	B	191	31.773	62.188	52.548	1.00 54.68	B
ATOM	3212	O	LEU	B	191	32.863	62.083	53.112	1.00 54.68	B
ATOM	3213	N	ASP	B	192	30.666	62.622	53.154	1.00 56.67	B
ATOM	3214	CA	ASP	B	192	30.616	63.063	54.552	1.00 56.67	B
ATOM	3215	CB	ASP	B	192	29.190	63.505	54.903	1.00 66.03	B
ATOM	3216	CG	ASP	B	192	28.745	64.727	54.116	1.00 66.03	B
ATOM	3217	OD1	ASP	B	192	29.508	65.167	53.227	1.00 66.03	B
ATOM	3218	OD2	ASP	B	192	27.635	65.243	54.383	1.00 66.03	B
ATOM	3219	C	ASP	B	192	31.080	62.007	55.554	1.00 56.67	B
ATOM	3220	O	ASP	B	192	31.352	60.865	55.182	1.00 56.67	B
ATOM	3221	N	LYS	B	193	31.160	62.405	56.825	1.00 24.44	B
ATOM	3222	CA	LYS	B	193	31.598	61.524	57.902	1.00 24.44	B
ATOM	3223	CB	LYS	B	193	33.104	61.303	57.834	1.00 62.39	B
ATOM	3224	CG	LYS	B	193	33.637	60.548	59.031	1.00 62.39	B
ATOM	3225	CD	LYS	B	193	35.078	60.165	58.836	1.00 62.39	B
ATOM	3226	CE	LYS	B	193	35.466	59.022	59.747	1.00 62.39	B
ATOM	3227	NZ	LYS	B	193	36.737	58.393	59.292	1.00 62.39	B
ATOM	3228	C	LYS	B	193	31.254	62.168	59.239	1.00 24.44	B
ATOM	3229	O	LYS	B	193	32.036	62.955	59.762	1.00 24.44	B
ATOM	3230	N	LEU	B	194	30.109	61.807	59.811	1.00 74.01	B
ATOM	3231	CA	LEU	B	194	29.660	62.381	61.082	1.00 74.01	B
ATOM	3232	CB	LEU	B	194	28.415	61.656	61.592	1.00 60.97	B
ATOM	3233	CG	LEU	B	194	27.093	62.293	61.178	1.00 60.97	B
ATOM	3234	CD1	LEU	B	194	26.151	62.229	62.343	1.00 60.97	B
ATOM	3235	CD2	LEU	B	194	27.296	63.734	60.782	1.00 60.97	B
ATOM	3236	C	LEU	B	194	30.590	62.585	62.279	1.00 74.01	B
ATOM	3237	O	LEU	B	194	31.403	63.505	62.292	1.00 74.01	B
ATOM	3238	N	THR	B	195	30.418	61.741	63.294	1.00 32.39	B

ATOM	3323	C	THR	B	205	24.348	57.635	77.673	1.00	50.50	B
ATOM	3324	O	THR	B	205	23.270	57.293	77.172	1.00	50.50	B
ATOM	3325	N	PRO	B	206	25.261	58.352	76.998	1.00	43.13	B
ATOM	3326	CD	PRO	B	206	26.627	58.645	77.464	1.00	100.07	B
ATOM	3327	CA	PRO	B	206	25.077	58.786	75.611	1.00	43.13	B
ATOM	3328	CB	PRO	B	206	26.482	59.241	75.199	1.00	100.07	B
ATOM	3329	CG	PRO	B	206	27.402	58.539	76.194	1.00	100.07	B
ATOM	3330	C	PRO	B	206	24.523	57.671	74.734	1.00	43.13	B
ATOM	3331	O	PRO	B	206	23.477	57.834	74.094	1.00	43.13	B
ATOM	3332	N	LEU	B	207	25.228	56.539	74.719	1.00	99.23	B
ATOM	3333	CA	LEU	B	207	24.818	55.379	73.933	1.00	99.23	B
ATOM	3334	CB	LEU	B	207	25.383	54.090	74.553	1.00	83.32	B
ATOM	3335	CG	LEU	B	207	26.693	54.157	75.352	1.00	83.32	B
ATOM	3336	CD1	LEU	B	207	27.121	52.755	75.746	1.00	83.32	B
ATOM	3337	CD2	LEU	B	207	27.776	54.817	74.534	1.00	83.32	B
ATOM	3338	C	LEU	B	207	23.304	55.371	74.014	1.00	99.23	B
ATOM	3339	O	LEU	B	207	22.608	55.505	73.006	1.00	99.23	B
ATOM	3340	N	GLU	B	208	22.812	55.256	75.241	1.00	58.63	B
ATOM	3341	CA	GLU	B	208	21.389	55.238	75.502	1.00	58.63	B
ATOM	3342	CB	GLU	B	208	21.177	55.007	76.990	1.00	99.97	B
ATOM	3343	CG	GLU	B	208	21.996	53.829	77.496	1.00	99.97	B
ATOM	3344	CD	GLU	B	208	22.353	53.957	78.960	1.00	99.97	B
ATOM	3345	OE1	GLU	B	208	22.448	55.110	79.431	1.00	99.97	B
ATOM	3346	OE2	GLU	B	208	22.559	52.917	79.629	1.00	99.97	B
ATOM	3347	C	GLU	B	208	20.771	56.558	75.041	1.00	58.63	B
ATOM	3348	O	GLU	B	208	19.789	56.570	74.299	1.00	58.63	B
ATOM	3349	N	ALA	B	209	21.368	57.668	75.462	1.00	50.18	B
ATOM	3350	CA	ALA	B	209	20.877	58.991	75.092	1.00	50.18	B
ATOM	3351	CB	ALA	B	209	21.902	60.045	75.465	1.00	17.32	B
ATOM	3352	C	ALA	B	209	20.584	59.066	73.606	1.00	50.18	B
ATOM	3353	O	ALA	B	209	19.504	59.505	73.204	1.00	50.18	B
ATOM	3354	N	LEU	B	210	21.551	58.620	72.804	1.00	86.85	B
ATOM	3355	CA	LEU	B	210	21.452	58.639	71.345	1.00	86.85	B
ATOM	3356	CB	LEU	B	210	22.800	58.266	70.722	1.00	41.12	B
ATOM	3357	CG	LEU	B	210	22.734	57.913	69.232	1.00	41.12	B
ATOM	3358	CD1	LEU	B	210	22.029	59.007	68.449	1.00	41.12	B
ATOM	3359	CD2	LEU	B	210	24.132	57.687	68.708	1.00	41.12	B
ATOM	3360	C	LEU	B	210	20.344	57.772	70.738	1.00	86.85	B
ATOM	3361	O	LEU	B	210	19.483	58.278	70.011	1.00	86.85	B
ATOM	3362	N	ASN	B	211	20.375	56.468	71.002	1.00	97.57	B
ATOM	3363	CA	ASN	B	21						

ATOM	3407	CG	LEU	B	217	14.051	62.148	63.627	1.00	65.28	B
ATOM	3408	CD1	LEU	B	217	13.182	63.301	63.122	1.00	65.28	B
ATOM	3409	CD2	LEU	B	217	15.513	62.319	63.227	1.00	65.28	B
ATOM	3410	C	LEU	B	217	11.832	60.761	64.755	1.00	80.63	B
ATOM	3411	O	LEU	B	217	10.972	61.058	63.922	1.00	80.63	B
ATOM	3412	N	LYS	B	218	12.241	59.519	64.981	1.00	92.37	B
ATOM	3413	CA	LYS	B	218	11.706	58.373	64.269	1.00	92.37	B
ATOM	3414	CB	LYS	B	218	12.358	57.110	64.829	1.00	100.07	B
ATOM	3415	CG	LYS	B	218	12.257	55.867	63.972	1.00	100.07	B
ATOM	3416	CD	LYS	B	218	13.025	54.735	64.654	1.00	100.07	B
ATOM	3417	CE	LYS	B	218	12.794	53.374	64.007	1.00	100.07	B
ATOM	3418	NZ	LYS	B	218	13.420	52.274	64.806	1.00	100.07	B
ATOM	3419	C	LYS	B	218	10.199	58.376	64.522	1.00	92.37	B
ATOM	3420	O	LYS	B	218	9.414	58.637	63.612	1.00	92.37	B
ATOM	3421	N	GLU	B	219	9.801	58.133	65.769	1.00	79.01	B
ATOM	3422	CA	GLU	B	219	8.386	58.099	66.113	1.00	79.01	B
ATOM	3423	CB	GLU	B	219	8.196	57.858	67.612	1.00	100.07	B
ATOM	3424	CG	GLU	B	219	8.450	59.058	68.500	1.00	100.07	B
ATOM	3425	CD	GLU	B	219	8.105	58.780	69.964	1.00	100.07	B
ATOM	3426	OE1	GLU	B	219	8.764	57.912	70.583	1.00	100.07	B
ATOM	3427	OE2	GLU	B	219	7.172	59.423	70.497	1.00	100.07	B
ATOM	3428	C	GLU	B	219	7.631	59.345	65.689	1.00	79.01	B
ATOM	3429	O	GLU	B	219	6.407	59.329	65.600	1.00	79.01	B
ATOM	3430	N	HIS	B	220	8.357	60.424	65.426	1.00	99.82	B
ATOM	3431	CA	HIS	B	220	7.730	61.662	64.990	1.00	99.82	B
ATOM	3432	CB	HIS	B	220	8.626	62.848	65.334	1.00	99.10	B
ATOM	3433	CG	HIS	B	220	8.309	63.475	66.654	1.00	99.10	B
ATOM	3434	CD2	HIS	B	220	8.813	63.255	67.890	1.00	99.10	B
ATOM	3435	ND1	HIS	B	220	7.335	64.441	66.806	1.00	99.10	B
ATOM	3436	CE1	HIS	B	220	7.256	64.789	68.079	1.00	99.10	B
ATOM	3437	NE2	HIS	B	220	8.143	64.083	68.757	1.00	99.10	B
ATOM	3438	C	HIS	B	220	7.464	61.605	63.493	1.00	99.82	B
ATOM	3439	O	HIS	B	220	6.385	61.984	63.032	1.00	99.82	B
ATOM	3440	N	LEU	B	221	8.441	61.120	62.733	1.00	59.35	B
ATOM	3441	CA	LEU	B	221	8.285	61.021	61.287	1.00	59.35	B
ATOM	3442	CB	LEU	B	221	9.488	60.320	60.672	1.00	41.22	B
ATOM	3443	CG	LEU	B	221	10.769	61.140	60.790	1.00	41.22	B
ATOM	3444	CD1	LEU	B	221	11.934	60.247	61.184	1.00	41.22	B
ATOM	3445	CD2	LEU	B	221	11.006	61.856	59.475	1.00	41.22	B
ATOM	3446	C	LEU	B	221	7.014	60.239	60.998	1.00	59.35	B
ATOM	3447	O	LEU	B	221	6.330	60.510	60.016	1.00	59.35	B
ATOM	3448	N	ASN	B	222	6.704	59.278	61.868	1.00	72.61	B
ATOM	3449	CA	ASN	B	222	5.506	58.457	61.727	1.00	72.61	B
ATOM	3450	CB	ASN	B	222	5.130	57.790	63.046	1.00	98.73	B
ATOM	3451	CG	ASN	B	222	6.276	57.075	63.686	1.00	98.73	B
ATOM	3452	OD1	ASN	B	222	6.132	56.492	64.762	1.00	98.73	B
ATOM	3453	ND2	ASN	B	222	7.428	57.106	63.035	1.00	98.73	B
ATOM	3454	C	ASN	B	222	4.355	59.375	61.380	1.00	72.61	B
ATOM	3455	O	ASN	B	222	3.698	59.218	60.353	1.00	72.61	B
ATOM	3456	N	TYR	B	223	4.113	60.326	62.277	1.00	53.49	B
ATOM	3457	CA	TYR	B	223	3.044	61.303	62.125	1.00	53.49	B
ATOM	3458	CB	TYR	B	223	3.401	62.584	62.879	1.00	66.70	B
ATOM	3459	CG	TYR	B	223	3.589	62.418	64.376	1.00	66.70	B
ATOM	3460	CD1	TYR	B	223	4.271	63.383	65.115	1.00	66.70	B
ATOM	3461	CE1	TYR	B	223	4.464	63.244	66.485	1.00	66.70	B
ATOM	3462	CD2	TYR	B	223	3.093	61.301	65.055	1.00	66.70	B
ATOM	3463	CE2	TYR	B	223	3.281	61.153	66.432	1.00	66.70	B
ATOM	3464	CZ	TYR	B	223	3.974	62.129	67.137	1.00	66.70	B
ATOM	3465	OH	TYR	B	223	4.217	61.983	68.486	1.00	66.70	B
ATOM	3466	C	TYR	B	223	2.753	61.636	60.667	1.00	53.49	B
ATOM	3467	O	TYR	B	223	1.606	61.907	60.308	1.00	53.49	B
ATOM	3468	N	PHE	B	224	3.796	61.634	59.837	1.00	66.70	B
ATOM	3469	CA	PHE	B	224	3.633	61.904	58.410	1.00	66.70	B
ATOM	3470	CB	PHE	B	224	4.970	62.275	57.738	1.00	53.82	B
ATOM	3471	CG	PHE	B	224	5.693	63.448	58.376	1.00	53.82	B
ATOM	3472	CD1	PHE	B	224	6.431	63.281	59.556	1.00	53.82	B
ATOM	3473	CD2	PHE	B	224	5.655	64.714	57.787	1.00	53.82	B
ATOM	3474	CE1	PHE	B	224	7.113	64.352	60.130	1.00	53.82	B
ATOM	3475	CE2	PHE	B	224	6.337	65.791	58.362	1.00	53.82	B
ATOM	3476	CZ	PHE	B	224	7.066	65.609	59.532	1.00	53.82	B
ATOM	3477	C	PHE	B	224	3.099	60.619	57.796	1.00	66.70	B
ATOM	3478	O	PHE	B	224	3.780	59.953	57.006	1.00	66.70	B
ATOM	3479	N	ALA	B	225	1.881	60.271	58.194	1.00	79.03	B
ATOM	3480	CA	ALA	B	225	1.198	59.079	57.716	1.00	79.03	B
ATOM	3481	CB	ALA	B	225	1.362	57.950	58.720	1.00	49.79	B
ATOM	3482	C	ALA	B	225	-0.268	59.455	57.571	1.00	79.03	B
ATOM	3483	O	ALA	B	225	-0.787	60.238	58.364	1.00	79.03	B
ATOM	3484	N	ASN	B	226	-0.930	58.904	56.559	1.00	83.64	B
ATOM	3485	CA	ASN	B	226	-2.343	59.185	56.311	1.00	83.64	B
ATOM	3486	CB	ASN	B	226	-3.229	58.265	57.158	1.00	100.07	B
ATOM	3487	CG	ASN	B	226	-2.620	57.949	58.496	1.00	100.07	B
ATOM	3488	OD1	ASN	B	226	-1.858	56.994	58.624	1.00	100.07	B
ATOM	3489	ND2	ASN	B	226	-2.934	58.761	59.504	1.00	100.07	B
ATOM	3490	C	ASN	B	226	-2.738	60.638	56.556	1.00	83.64	B

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ATOM	3491	O	ASN	B	226	-2.819	61.102	57.696	1.00	83.64	B
ATOM	3492	N	PRO	B	227	-2.992	61.373	55.469	1.00	99.93	B
ATOM	3493	CD	PRO	B	227	-2.459	61.008	54.141	1.00	100.07	B
ATOM	3494	CA	PRO	B	227	-3.383	62.783	55.503	1.00	99.93	B
ATOM	3495	CB	PRO	B	227	-2.469	63.390	54.457	1.00	100.07	B
ATOM	3496	CG	PRO	B	227	-2.510	62.324	53.381	1.00	100.07	B
ATOM	3497	C	PRO	B	227	-4.867	63.041	55.193	1.00	99.93	B
ATOM	3498	O	PRO	B	227	-5.677	62.114	55.106	1.00	99.93	B
ATOM	3499	N	GLU	B	228	-5.193	64.322	55.034	1.00	94.63	B
ATOM	3500	CA	GLU	B	228	-6.535	64.800	54.702	1.00	94.63	B
ATOM	3501	CB	GLU	B	228	-7.334	65.083	55.972	1.00	100.07	B
ATOM	3502	CG	GLU	B	228	-7.381	63.944	56.966	1.00	100.07	B
ATOM	3503	CD	GLU	B	228	-8.436	64.167	58.030	1.00	100.07	B
ATOM	3504	OE1	GLU	B	228	-8.364	65.204	58.727	1.00	100.07	B
ATOM	3505	OE2	GLU	B	228	-9.337	63.308	58.161	1.00	100.07	B
ATOM	3506	C	GLU	B	228	-6.259	66.119	53.991	1.00	94.63	B
ATOM	3507	O	GLU	B	228	-5.305	66.805	54.344	1.00	94.63	B
ATOM	3508	N	ALA	B	229	-7.070	66.505	53.015	1.00	52.60	B
ATOM	3509	CA	ALA	B	229	-6.754	67.753	52.343	1.00	52.60	B
ATOM	3510	CB	ALA	B	229	-5.594	67.519	51.423	1.00	61.53	B
ATOM	3511	C	ALA	B	229	-7.841	68.485	51.583	1.00	52.60	B
ATOM	3512	O	ALA	B	229	-8.541	69.333	52.148	1.00	52.60	B
ATOM	3513	N	ALA	B	230	-7.935	68.183	50.286	1.00	100.07	B
ATOM	3514	CA	ALA	B	230	-8.904	68.802	49.378	1.00	100.07	B
ATOM	3515	CB	ALA	B	230	-10.315	68.785	50.000	1.00	86.00	B
ATOM	3516	C	ALA	B	230	-8.485	70.238	49.053	1.00	100.07	B
ATOM	3517	O	ALA	B	230	-9.093	71.192	49.541	1.00	100.07	B
ATOM	3518	N	ALA	B	231	-7.458	70.391	48.219	1.00	99.41	B
ATOM	3519	CA	ALA	B	231	-6.959	71.718	47.861	1.00	99.41	B
ATOM	3520	CB	ALA	B	231	-5.487	71.637	47.519	1.00	67.22	B
ATOM	3521	C	ALA	B	231	-7.708	72.376	46.712	1.00	99.41	B
ATOM	3522	O	ALA	B	231	-8.433	71.649	45.999	1.00	99.41	B
ATOM	3523	OT	ALA	B	231	-7.534	73.609	46.537	1.00	67.22	B
ATOM	3524	CB	ALA	C	2	8.451	96.575	31.813	1.00	53.37	C
ATOM	3525	C	ALA	C	2	10.543	97.948	31.601	1.00	100.07	C
ATOM	3526	O	ALA	C	2	11.375	97.053	31.752	1.00	100.07	C
ATOM	3527	N	ALA	C	2	9.353	97.162	29.585	1.00	100.07	C
ATOM	3528	CA	ALA	C	2	9.179	97.641	30.982	1.00	100.07	C
ATOM	3529	N	ILE	C	3	10.767	99.214	31.947	1.00	81.15	C
ATOM	3530	CA	ILE	C	3	12.023	99.650	32.559	1.00	81.15	C
ATOM	3531	CB	ILE	C	3	13.110	99.940	31.495	1.00	93.79	C
ATOM	3532	CG2	ILE	C	3	14.432	100.195	32.189	1.00	93.79	C
ATOM	3533	CG1	ILE	C	3	13.238	98.780	30.507	1.00	93.79	C
ATOM	3534	CD	ILE	C	3	14.326	98.989	29.475	1.00	100.07	C
ATOM	3535	C	ILE	C	3	11.802	100.958	33.327	1.00	81.15	C
ATOM	3536	O	ILE	C	3	10.910	101.732	32.994	1.00	81.15	C
ATOM	3537	N	LYS	C	4	12.612	101.207	34.350	1.00	44.10	C
ATOM	3538	CA	LYS	C	4	12.499	102.454	35.094	1.00	44.10	C
ATOM	3539	CB	LYS	C	4	12.878	102.253	36.557	1.00	100.07	C
ATOM	3540	CG	LYS	C	4	11.725	101.814	37.447	1.00	100.07	C
ATOM	3541	CD	LYS	C	4	10.552	102.791	37.379	1.00	100.07	C
ATOM	3542	CE	LYS	C	4	9.385	102.339	38.260	1.00	100.07	C
ATOM	3543	NZ	LYS	C	4	8.140	103.097	37.957	1.00	100.07	C
ATOM	3544	C	LYS	C	4	13.431	103.477	34.462	1.00	44.10	C
ATOM	3545	O	LYS	C	4	14.417	103.115	33.821	1.00	44.10	C
ATOM	3546	N	ARG	C	5	13.134	104.755	34.646	1.00	69.39	C
ATOM	3547	CA	ARG	C	5	13.965	105.793	34.055	1.00	69.39	C
ATOM	3548	CB	ARG	C	5	13.426	106.148	32.657	1.00	100.07	C
ATOM	3549	CG	ARG	C	5	13.674	105.075	31.584	1.00	100.07	C
ATOM	3550	CD	ARG	C	5	13.416	105.601	30.150	1.00	100.07	C
ATOM	3551	NE	ARG	C	5	14.206	104.883	29.142	1.00	100.07	C
ATOM	3552	CZ	ARG	C	5	14.259	105.194	27.846	1.00	100.07	C
ATOM	3553	NH1	ARG	C	5	13.562	106.222	27.370	1.00	100.07	C
ATOM	3554	NH2	ARG	C	5	15.026	104.479	27.027	1.00	100.07	C
ATOM	3555	C	ARG	C	5	14.093	107.064	34.902	1.00	69.39	C
ATOM	3556	O	ARG	C	5	13.120	107.801	35.079	1.00	69.39	C
ATOM	3557	N	PHE	C	6	15.292	107.315	35.423	1.00	100.07	C
ATOM	3558	CA	PHE	C	6	15.548	108.513	36.223	1.00	100.07	C
ATOM	3559	CB	PHE	C	6	15.612	108.195	37.731	1.00	99.71	C
ATOM	3560	CG	PHE	C	6	15.918	106.737	38.077	1.00	99.71	C
ATOM	3561	CD1	PHE	C	6	16.705	105.933	37.252	1.00	99.71	C
ATOM	3562	CD2	PHE	C	6	15.452	106.193	39.283	1.00	99.71	C
ATOM	3563	CE1	PHE	C	6	17.019	104.621	37.626	1.00	99.71	C
ATOM	3564	CE2	PHE	C	6	15.765	104.890	39.656	1.00	99.71	C
ATOM	3565	CZ	PHE	C	6	16.549	104.106	38.829	1.00	99.71	C
ATOM	3566	C	PHE	C	6	16.846	109.201	35.809	1.00	100.07	C
ATOM	3567	O	PHE	C	6	17.869	108.537	35.661	1.00	100.07	C
ATOM	3568	N	GLY	C	7	16.807	110.527	35.636	1.00	100.07	C
ATOM	3569	CA	GLY	C	7	17.999	111.262	35.234	1.00	100.07	C
ATOM	3570	C	GLY	C	7	17.800	112.707	34.786	1.00	100.07	C
ATOM	3571	O	GLY	C	7	16.872	113.377	35.236	1.00	100.07	C
ATOM	3572	N	ARG	C	8	18.680	113.192	33.907	1.00	100.07	C
ATOM	3573	CA	ARG	C	8	18.598	114.567	33.397	1.00	100.07	C
ATOM	3574	CB	ARG	C	8	19.496	115.481	34.225	1.00	100.07	C

ATOM	3575	CG	ARG	C	8	18.927	115.746	35.607	1.00100.07	C
ATOM	3576	CD	ARG	C	8	19.469	117.043	36.189	1.00100.07	C
ATOM	3577	NE	ARG	C	8	18.818	117.431	37.441	1.00100.07	C
ATOM	3578	CZ	ARG	C	8	19.094	118.552	38.102	1.00100.07	C
ATOM	3579	NH1	ARG	C	8	20.008	119.390	37.630	1.00100.07	C
ATOM	3580	NH2	ARG	C	8	18.457	118.839	39.231	1.00100.07	C
ATOM	3581	C	ARG	C	8	18.882	114.767	31.894	1.00100.07	C
ATOM	3582	O	ARG	C	8	19.199	113.813	31.185	1.00100.07	C
ATOM	3583	N	ILE	C	9	18.751	116.014	31.431	1.00 85.07	C
ATOM	3584	CA	ILE	C	9	18.926	116.420	30.023	1.00 85.07	C
ATOM	3585	CB	ILE	C	9	20.126	117.398	29.855	1.00100.07	C
ATOM	3586	CG2	ILE	C	9	19.985	118.164	28.559	1.00100.07	C
ATOM	3587	CG1	ILE	C	9	20.143	118.438	30.981	1.00100.07	C
ATOM	3588	CD	ILE	C	9	20.695	117.922	32.299	1.00100.07	C
ATOM	3589	C	ILE	C	9	19.057	115.295	28.985	1.00 85.07	C
ATOM	3590	O	ILE	C	9	18.302	114.318	29.031	1.00 85.07	C
ATOM	3591	N	ARG	C	10	20.005	115.455	28.057	1.00 99.59	C
ATOM	3592	CA	ARG	C	10	20.296	114.509	26.965	1.00 99.59	C
ATOM	3593	CB	ARG	C	10	19.120	113.546	26.737	1.00100.07	C
ATOM	3594	CG	ARG	C	10	19.272	112.570	25.575	1.00100.07	C
ATOM	3595	CD	ARG	C	10	17.906	112.005	25.201	1.00100.07	C
ATOM	3596	NE	ARG	C	10	17.909	111.286	23.926	1.00100.07	C
ATOM	3597	CZ	ARG	C	10	16.810	110.992	23.233	1.00100.07	C
ATOM	3598	NH1	ARG	C	10	15.619	111.358	23.693	1.00100.07	C
ATOM	3599	NH2	ARG	C	10	16.895	110.335	22.080	1.00100.07	C
ATOM	3600	C	ARG	C	10	20.530	115.345	25.701	1.00 99.59	C
ATOM	3601	O	ARG	C	10	20.543	114.831	24.577	1.00 99.59	C
ATOM	3602	N	GLU	C	11	20.709	116.644	25.921	1.00 95.59	C
ATOM	3603	CA	GLU	C	11	20.938	117.651	24.886	1.00 95.59	C
ATOM	3604	CB	GLU	C	11	21.781	118.774	25.511	1.00100.07	C
ATOM	3605	CG	GLU	C	11	22.184	119.942	24.628	1.00100.07	C
ATOM	3606	CD	GLU	C	11	22.520	121.210	25.446	1.00100.07	C
ATOM	3607	OE1	GLU	C	11	22.983	121.095	26.608	1.00100.07	C
ATOM	3608	OE2	GLU	C	11	22.320	122.331	24.924	1.00100.07	C
ATOM	3609	C	GLU	C	11	21.563	117.139	23.587	1.00 95.59	C
ATOM	3610	O	GLU	C	11	21.159	117.543	22.499	1.00 95.59	C
ATOM	3611	N	VAL	C	12	22.512	116.218	23.702	1.00 56.92	C
ATOM	3612	CA	VAL	C	12	23.217	115.671	22.550	1.00 56.92	C
ATOM	3613	CB	VAL	C	12	24.625	116.262	22.499	1.00 43.85	C
ATOM	3614	CG1	VAL	C	12	25.498	115.474	21.577	1.00 43.85	C
ATOM	3615	CG2	VAL	C	12	24.546	117.685	22.058	1.00 43.85	C
ATOM	3616	C	VAL	C	12	23.328	114.146	22.545	1.00 56.92	C
ATOM	3617	O	VAL	C	12	23.437	113.518	23.598	1.00 56.92	C
ATOM	3618	N	ILE	C	13	23.300	113.553	21.355	1.00 99.52	C
ATOM	3619	CA	ILE	C	13	23.432	112.108	21.241	1.00 99.52	C
ATOM	3620	CB	ILE	C	13	23.132	111.590	19.820	1.00100.07	C
ATOM	3621	CG2	ILE	C	13	22.625	110.156	19.893	1.00100.07	C
ATOM	3622	CG1	ILE	C	13	22.054	112.449	19.155	1.00100.07	C
ATOM	3623	CD	ILE	C	13	22.575	113.725	18.488	1.00100.07	C
ATOM	3624	C	ILE	C	13	24.894	111.855	21.544	1.00 99.52	C
ATOM	3625	O	ILE	C	13	25.757	112.650	21.163	1.00 99.52	C
ATOM	3626	N	PRO	C	14	25.200	110.736	22.227	1.00100.07	C
ATOM	3627	CD	PRO	C	14	24.342	109.569	22.493	1.00100.07	C
ATOM	3628	CA	PRO	C	14	26.593	110.446	22.556	1.00100.07	C
ATOM	3629	CB	PRO	C	14	26.490	109.130	23.332	1.00100.07	C
ATOM	3630	CG	PRO	C	14	25.350	108.445	22.665	1.00100.07	C
ATOM	3631	C	PRO	C	14	27.476	110.327	21.320	1.00100.07	C
ATOM	3632	O	PRO	C	14	28.511	109.674	21.365	1.00100.07	C
ATOM	3633	N	LEU	C	15	27.078	110.958	20.219	1.00 99.37	C
ATOM	3634	CA	LEU	C	15	27.881	110.878	19.005	1.00 99.37	C
ATOM	3635	CB	LEU	C	15	29.251	111.501	19.246	1.00100.07	C
ATOM	3636	CG	LEU	C	15	30.244	111.561	18.075	1.00100.07	C
ATOM	3637	CD1	LEU	C	15	29.893	112.702	17.119	1.00100.07	C
ATOM	3638	CD2	LEU	C	15	31.651	111.754	18.636	1.00100.07	C
ATOM	3639	C	LEU	C	15	28.070	109.407	18.699	1.00 99.37	C
ATOM	3640	O	LEU	C	15	29.199	108.923	18.664	1.00 99.37	C
ATOM	3641	N	PRO	C	16	26.971	108.679	18.437	1.00100.07	C
ATOM	3642	CD	PRO	C	16	25.660	109.213	18.031	1.00100.07	C
ATOM	3643	CA	PRO	C	16	27.061	107.240	18.140	1.00100.07	C
ATOM	3644	CB	PRO	C	16	25.775	106.966	17.360	1.00100.07	C
ATOM	3645	CG	PRO	C	16	24.841	107.955	17.909	1.00100.07	C
ATOM	3646	C	PRO	C	16	28.302	106.699	17.406	1.00100.07	C
ATOM	3647	O	PRO	C	16	28.760	105.584	17.681	1.00100.07	C
ATOM	3648	N	PRO	C	17	28.854	107.471	16.450	1.00 99.96	C
ATOM	3649	CD	PRO	C	17	28.398	108.764	15.935	1.00 64.04	C
ATOM	3650	CA	PRO	C	17	30.028	107.035	15.703	1.00 99.96	C
ATOM	3651	CB	PRO	C	17	30.477	108.311	14.983	1.00 64.04	C
ATOM	3652	CG	PRO	C	17	29.696	109.415	15.628	1.00 64.04	C
ATOM	3653	C	PRO	C	17	31.161	106.357	16.457	1.00 99.96	C
ATOM	3654	O	PRO	C	17	31.907	105.604	15.853	1.00 99.96	C
ATOM	3655	N	LEU	C	18	31.301	106.626	17.752	1.00 50.16	C
ATOM	3656	CA	LEU	C	18	32.350	106.007	18.582	1.00 50.16	C
ATOM	3657	CB	LEU	C	18	31.787	104.823	19.361	1.00 59.86	C
ATOM	3658	CG	LEU	C	18	30.732	105.193	20.405	1.00 59.86	C

ATOM	3659	CD1	LEU	C	18	30.211	103.942	21.081	1.00	59.86	C
ATOM	3660	CD2	LEU	C	18	31.331	106.124	21.437	1.00	59.86	C
ATOM	3661	C	LEU	C	18	33.578	105.557	17.810	1.00	50.16	C
ATOM	3662	O	LEU	C	18	34.634	106.132	17.970	1.00	50.16	C
ATOM	3663	N	THR	C	19	33.466	104.514	16.996	1.00	32.85	C
ATOM	3664	CA	THR	C	19	34.601	104.091	16.188	1.00	32.85	C
ATOM	3665	CB	THR	C	19	34.215	103.051	15.154	1.00	36.99	C
ATOM	3666	OG1	THR	C	19	32.891	102.580	15.411	1.00	36.99	C
ATOM	3667	CG2	THR	C	19	35.177	101.885	15.207	1.00	36.99	C
ATOM	3668	C	THR	C	19	35.015	105.327	15.417	1.00	32.85	C
ATOM	3669	O	THR	C	19	36.025	105.339	14.725	1.00	32.85	C
ATOM	3670	N	GLU	C	20	34.206	106.369	15.521	1.00	32.76	C
ATOM	3671	CA	GLU	C	20	34.486	107.618	14.854	1.00	32.76	C
ATOM	3672	CB	GLU	C	20	33.607	108.721	15.422	1.00	100.07	C
ATOM	3673	CG	GLU	C	20	33.657	110.004	14.618	1.00	100.07	C
ATOM	3674	CD	GLU	C	20	33.655	111.242	15.479	1.00	100.07	C
ATOM	3675	OE1	GLU	C	20	33.507	112.342	14.908	1.00	100.07	C
ATOM	3676	OE2	GLU	C	20	33.810	111.121	16.715	1.00	100.07	C
ATOM	3677	C	GLU	C	20	35.938	108.001	15.064	1.00	32.76	C
ATOM	3678	O	GLU	C	20	36.460	108.812	14.316	1.00	32.76	C
ATOM	3679	N	ILE	C	21	36.577	107.425	16.085	1.00	35.52	C
ATOM	3680	CA	ILE	C	21	37.971	107.736	16.404	1.00	35.52	C
ATOM	3681	CB	ILE	C	21	38.569	106.773	17.419	1.00	65.40	C
ATOM	3682	CG2	ILE	C	21	39.876	107.347	17.923	1.00	65.40	C
ATOM	3683	CG1	ILE	C	21	37.598	106.551	18.578	1.00	65.40	C
ATOM	3684	CD	ILE	C	21	37.203	107.819	19.338	1.00	100.07	C
ATOM	3685	C	ILE	C	21	38.802	107.632	15.160	1.00	35.52	C
ATOM	3686	O	ILE	C	21	39.426	108.604	14.729	1.00	35.52	C
ATOM	3687	N	GLN	C	22	38.803	106.432	14.597	1.00	55.89	C
ATOM	3688	CA	GLN	C	22	39.516	106.164	13.376	1.00	55.89	C
ATOM	3689	CB	GLN	C	22	40.142	104.778	13.451	1.00	99.33	C
ATOM	3690	CG	GLN	C	22	40.993	104.623	14.694	1.00	99.33	C
ATOM	3691	CD	GLN	C	22	41.568	103.237	14.869	1.00	99.33	C
ATOM	3692	OE1	GLN	C	22	40.839	102.250	14.883	1.00	99.33	C
ATOM	3693	NE2	GLN	C	22	42.886	103.157	15.016	1.00	99.33	C
ATOM	3694	C	GLN	C	22	38.423	106.240	12.326	1.00	55.89	C
ATOM	3695	O	GLN	C	22	37.927	107.324	12.026	1.00	55.89	C
ATOM	3696	N	VAL	C	23	38.021	105.098	11.796	1.00	60.15	C
ATOM	3697	CA	VAL	C	23	36.971	105.082	10.799	1.00	60.15	C
ATOM	3698	CB	VAL	C	23	35.585	105.203	11.433	1.00	77.73	C
ATOM	3699	CG1	VAL								

ATOM	3743	CD	LYS	C	28	38.404	113.913	5.950	1.00100.07	C
ATOM	3744	CE	LYS	C	28	37.034	114.523	6.218	1.00100.07	C
ATOM	3745	NZ	LYS	C	28	36.619	115.506	5.170	1.00100.07	C
ATOM	3746	C	LYS	C	28	41.564	111.243	4.916	1.00 59.84	C
ATOM	3747	O	LYS	C	28	41.858	111.780	3.854	1.00 59.84	C
ATOM	3748	N	ALA	C	29	42.455	110.638	5.698	1.00 51.31	C
ATOM	3749	CA	ALA	C	29	43.851	110.559	5.307	1.00 51.31	C
ATOM	3750	CB	ALA	C	29	44.602	109.621	6.214	1.00 88.35	C
ATOM	3751	C	ALA	C	29	43.860	110.038	3.882	1.00 51.31	C
ATOM	3752	O	ALA	C	29	44.590	110.549	3.042	1.00 51.31	C
ATOM	3753	N	LEU	C	30	43.026	109.033	3.636	1.00 91.88	C
ATOM	3754	CA	LEU	C	30	42.881	108.405	2.339	1.00 91.88	C
ATOM	3755	CB	LEU	C	30	42.478	106.948	2.546	1.00100.07	C
ATOM	3756	CG	LEU	C	30	42.047	106.095	1.358	1.00100.07	C
ATOM	3757	CD1	LEU	C	30	43.199	105.879	0.382	1.00100.07	C
ATOM	3758	CD2	LEU	C	30	41.536	104.771	1.898	1.00100.07	C
ATOM	3759	C	LEU	C	30	41.797	109.150	1.542	1.00 91.88	C
ATOM	3760	O	LEU	C	30	40.646	108.706	1.455	1.00 91.88	C
ATOM	3761	N	GLN	C	31	42.175	110.296	0.983	1.00 74.59	C
ATOM	3762	CA	GLN	C	31	41.281	111.140	0.187	1.00 74.59	C
ATOM	3763	CB	GLN	C	31	42.088	112.024	-0.753	1.00 86.91	C
ATOM	3764	CG	GLN	C	31	43.415	112.501	-0.149	1.00 86.91	C
ATOM	3765	CD	GLN	C	31	43.279	113.804	0.586	1.00 86.91	C
ATOM	3766	OE1	GLN	C	31	42.168	114.243	0.884	1.00 86.91	C
ATOM	3767	NE2	GLN	C	31	44.407	114.436	0.879	1.00 86.91	C
ATOM	3768	C	GLN	C	31	40.338	110.323	-0.643	1.00 74.59	C
ATOM	3769	O	GLN	C	31	39.253	110.778	-0.967	1.00 74.59	C
ATOM	3770	N	ALA	C	32	40.792	109.117	-0.993	1.00100.07	C
ATOM	3771	CA	ALA	C	32	40.055	108.150	-1.800	1.00100.07	C
ATOM	3772	CB	ALA	C	32	40.292	106.764	-1.247	1.00 90.82	C
ATOM	3773	C	ALA	C	32	38.545	108.380	-1.981	1.00100.07	C
ATOM	3774	O	ALA	C	32	37.872	108.891	-1.094	1.00100.07	C
ATOM	3775	N	ASP	C	33	38.026	107.953	-3.146	1.00 57.55	C
ATOM	3776	CA	ASP	C	33	36.605	108.101	-3.465	1.00 57.55	C
ATOM	3777	CB	ASP	C	33	35.774	107.377	-2.407	1.00100.07	C
ATOM	3778	CG	ASP	C	33	34.822	106.382	-3.030	1.00100.07	C
ATOM	3779	OD1	ASP	C	33	34.015	106.799	-3.884	1.00100.07	C
ATOM	3780	OD2	ASP	C	33	34.878	105.176	-2.662	1.00100.07	C
ATOM	3781	C	ASP	C	33	36.124	109.528	-3.589	1.00 57.55	C
ATOM	3782	O	ASP	C	33	34.998	109.845	-3.209	1.00 57.55	C
ATOM	3783	N	VAL	C	34	37.005	110.363	-4.125	1.00 71.46	C
ATOM	3784	CA	VAL	C	34	36.753	111.782	-4.358	1.00 71.46	C
ATOM	3785	CB	VAL	C	34	37.561	112.629	-3.350	1.00100.07	C
ATOM	3786	CG1	VAL	C	34	37.598	114.073	-3.769	1.00100.07	C
ATOM	3787	CG2	VAL	C	34	36.953	112.475	-1.962	1.00100.07	C
ATOM	3788	C	VAL	C	34	37.234	112.075	-5.768	1.00 71.46	C
ATOM	3789	O	VAL	C	34	38.048	111.329	-6.308	1.00 71.46	C
ATOM	3790	N	PRO	C	35	36.727	113.133	-6.402	1.00 40.20	C
ATOM	3791	CD	PRO	C	35	35.675	114.131	-6.165	1.00100.07	C
ATOM	3792	CA	PRO	C	35	37.300	113.274	-7.744	1.00 40.20	C
ATOM	3793	CB	PRO	C	35	36.415	114.335	-8.382	1.00100.07	C
ATOM	3794	CG	PRO	C	35	35.973	115.170	-7.224	1.00100.07	C
ATOM	3795	C	PRO	C	35	38.737	113.731	-7.519	1.00 40.20	C
ATOM	3796	O	PRO	C	35	38.993	114.627	-6.707	1.00 40.20	C
ATOM	3797	N	PRO	C	36	39.690	113.075	-8.187	1.00 61.53	C
ATOM	3798	CD	PRO	C	36	39.478	112.085	-9.256	1.00 99.99	C
ATOM	3799	CA	PRO	C	36	41.109	113.404	-8.051	1.00 61.53	C
ATOM	3800	CB	PRO	C	36	41.781	112.359	-8.924	1.00 99.99	C
ATOM	3801	CG	PRO	C	36	40.775	112.169	-10.027	1.00 99.99	C
ATOM	3802	C	PRO	C	36	41.413	114.817	-8.511	1.00 61.53	C
ATOM	3803	O	PRO	C	36	42.157	115.010	-9.461	1.00 61.53	C
ATOM	3804	N	GLU	C	37	40.845	115.804	-7.826	1.00 98.76	C
ATOM	3805	CA	GLU	C	37	41.050	117.192	-8.205	1.00 98.76	C
ATOM	3806	CB	GLU	C	37	40.113	117.549	-9.354	1.00 99.98	C
ATOM	3807	CG	GLU	C	37	39.001	116.546	-9.533	1.00 99.98	C
ATOM	3808	CD	GLU	C	37	38.120	116.890	-10.691	1.00 99.98	C
ATOM	3809	OE1	GLU	C	37	37.466	117.951	-10.639	1.00 99.98	C
ATOM	3810	OE2	GLU	C	37	38.086	116.097	-11.649	1.00 99.98	C
ATOM	3811	C	GLU	C	37	40.791	118.120	-7.035	1.00 98.76	C
ATOM	3812	O	GLU	C	37	40.722	119.337	-7.204	1.00 98.76	C
ATOM	3813	N	LYS	C	38	40.651	117.538	-5.849	1.00 70.78	C
ATOM	3814	CA	LYS	C	38	40.376	118.297	-4.638	1.00 70.78	C
ATOM	3815	CB	LYS	C	38	38.906	118.749	-4.632	1.00100.07	C
ATOM	3816	CG	LYS	C	38	38.554	119.782	-5.696	1.00100.07	C
ATOM	3817	CD	LYS	C	38	37.056	120.027	-5.825	1.00100.07	C
ATOM	3818	CE	LYS	C	38	36.763	121.178	-6.788	1.00100.07	C
ATOM	3819	NZ	LYS	C	38	35.295	121.278	-7.073	1.00100.07	C
ATOM	3820	C	LYS	C	38	40.667	117.469	-3.401	1.00 70.78	C
ATOM	3821	O	LYS	C	38	39.973	116.489	-3.132	1.00 70.78	C
ATOM	3822	N	ALA	C	39	41.700	117.879	-2.667	1.00 97.46	C
ATOM	3823	CA	ALA	C	39	42.127	117.217	-1.435	1.00 97.46	C
ATOM	3824	CB	ALA	C	39	41.930	115.719	-1.538	1.00100.07	C
ATOM	3825	C	ALA	C	39	43.588	117.513	-1.102	1.00 97.46	C
ATOM	3826	O	ALA	C	39	44.317	118.122	-1.883	1.00 97.46	C

ATOM	3827	N	GLU	C	40	44.004	117.062	0.074	1.00	81.94	C
ATOM	3828	CA	GLU	C	40	45.366	117.233	0.587	1.00	81.94	C
ATOM	3829	CB	GLU	C	40	45.814	118.684	0.455	1.00	100.07	C
ATOM	3830	CG	GLU	C	40	44.826	119.635	1.114	1.00	100.07	C
ATOM	3831	CD	GLU	C	40	45.454	120.949	1.573	1.00	100.07	C
ATOM	3832	OE1	GLU	C	40	45.907	121.737	0.714	1.00	100.07	C
ATOM	3833	OE2	GLU	C	40	45.491	121.204	2.799	1.00	100.07	C
ATOM	3834	C	GLU	C	40	45.323	116.859	2.067	1.00	81.94	C
ATOM	3835	O	GLU	C	40	46.356	116.673	2.708	1.00	81.94	C
ATOM	3836	N	ASN	C	41	44.105	116.769	2.597	1.00	99.27	C
ATOM	3837	CA	ASN	C	41	43.874	116.422	4.001	1.00	99.27	C
ATOM	3838	CB	ASN	C	41	42.415	115.967	4.210	1.00	100.07	C
ATOM	3839	CG	ASN	C	41	41.398	117.093	3.998	1.00	100.07	C
ATOM	3840	OD1	ASN	C	41	41.190	117.943	4.873	1.00	100.07	C
ATOM	3841	ND2	ASN	C	41	40.754	117.095	2.831	1.00	100.07	C
ATOM	3842	C	ASN	C	41	44.834	115.315	4.437	1.00	99.27	C
ATOM	3843	O	ASN	C	41	44.878	114.246	3.817	1.00	99.27	C
ATOM	3844	N	VAL	C	42	45.593	115.580	5.504	1.00	100.07	C
ATOM	3845	CA	VAL	C	42	46.580	114.640	6.035	1.00	100.07	C
ATOM	3846	CB	VAL	C	42	45.904	113.475	6.763	1.00	76.43	C
ATOM	3847	CG1	VAL	C	42	46.951	112.652	7.502	1.00	76.43	C
ATOM	3848	CG2	VAL	C	42	44.876	114.012	7.729	1.00	76.43	C
ATOM	3849	C	VAL	C	42	47.472	114.103	4.911	1.00	100.07	C
ATOM	3850	O	VAL	C	42	48.464	113.420	5.156	1.00	100.07	C
ATOM	3851	N	GLY	C	43	47.078	114.408	3.678	1.00	100.07	C
ATOM	3852	CA	GLY	C	43	47.831	114.037	2.500	1.00	100.07	C
ATOM	3853	C	GLY	C	43	48.117	112.624	2.045	1.00	100.07	C
ATOM	3854	O	GLY	C	43	49.272	112.325	1.723	1.00	100.07	C
ATOM	3855	N	ILE	C	44	47.113	111.750	1.995	1.00	69.51	C
ATOM	3856	CA	ILE	C	44	47.371	110.402	1.483	1.00	69.51	C
ATOM	3857	CB	ILE	C	44	46.064	109.560	1.304	1.00	100.02	C
ATOM	3858	CG2	ILE	C	44	45.539	109.670	-0.132	1.00	100.02	C
ATOM	3859	CG1	ILE	C	44	46.323	108.087	1.627	1.00	100.02	C
ATOM	3860	CD	ILE	C	44	47.299	107.415	0.709	1.00	100.07	C
ATOM	3861	C	ILE	C	44	47.870	110.798	0.109	1.00	69.51	C
ATOM	3862	O	ILE	C	44	48.617	110.069	-0.549	1.00	69.51	C
ATOM	3863	N	GLN	C	45	47.414	111.994	-0.277	1.00	86.09	C
ATOM	3864	CA	GLN	C	45	47.715	112.635	-1.544	1.00	86.09	C
ATOM	3865	CB	GLN	C	45	46.484	113.385	-2.064	1.00	100.07	C
ATOM	3866	CG	GLN	C	45	46.638	113.864	-3.492	1.00	100.07	C
ATOM	3867	CD	GLN	C	45	45.850	115.117				

ATOM	3911	N	THR	C	51	56.452	114.714	-1.584	1.00	92.95	C
ATOM	3912	CA	THR	C	51	57.673	114.214	-2.185	1.00	92.95	C
ATOM	3913	CB	THR	C	51	57.591	112.736	-2.476	1.00	76.00	C
ATOM	3914	OG1	THR	C	51	57.002	112.067	-1.354	1.00	76.00	C
ATOM	3915	CG2	THR	C	51	58.995	112.197	-2.724	1.00	76.00	C
ATOM	3916	C	THR	C	51	57.864	114.972	-3.483	1.00	92.95	C
ATOM	3917	O	THR	C	51	57.014	114.930	-4.370	1.00	92.95	C
ATOM	3918	N	PHE	C	52	58.994	115.666	-3.575	1.00	100.07	C
ATOM	3919	CA	PHE	C	52	59.315	116.498	-4.724	1.00	100.07	C
ATOM	3920	CB	PHE	C	52	60.744	117.038	-4.598	1.00	100.07	C
ATOM	3921	CG	PHE	C	52	60.847	118.279	-3.748	1.00	100.07	C
ATOM	3922	CD1	PHE	C	52	61.702	118.323	-2.652	1.00	100.07	C
ATOM	3923	CD2	PHE	C	52	60.083	119.413	-4.047	1.00	100.07	C
ATOM	3924	CE1	PHE	C	52	61.794	119.492	-1.857	1.00	100.07	C
ATOM	3925	CE2	PHE	C	52	60.164	120.578	-3.268	1.00	100.07	C
ATOM	3926	CZ	PHE	C	52	61.019	120.619	-2.172	1.00	100.07	C
ATOM	3927	C	PHE	C	52	59.111	115.903	-6.105	1.00	100.07	C
ATOM	3928	O	PHE	C	52	59.649	114.840	-6.417	1.00	100.07	C
ATOM	3929	N	PRO	C	53	58.298	116.591	-6.942	1.00	91.92	C
ATOM	3930	CD	PRO	C	53	57.487	117.764	-6.573	1.00	49.19	C
ATOM	3931	CA	PRO	C	53	57.997	116.184	-8.311	1.00	91.92	C
ATOM	3932	CB	PRO	C	53	57.281	117.407	-8.862	1.00	49.19	C
ATOM	3933	CG	PRO	C	53	56.481	117.827	-7.694	1.00	49.19	C
ATOM	3934	C	PRO	C	53	59.317	115.898	-9.008	1.00	91.92	C
ATOM	3935	O	PRO	C	53	59.735	116.614	-9.913	1.00	91.92	C
ATOM	3936	N	ILE	C	54	59.963	114.837	-8.528	1.00	100.07	C
ATOM	3937	CA	ILE	C	54	61.248	114.330	-8.990	1.00	100.07	C
ATOM	3938	CB	ILE	C	54	61.068	112.912	-9.529	1.00	100.07	C
ATOM	3939	CG2	ILE	C	54	62.264	112.529	-10.409	1.00	100.07	C
ATOM	3940	CG1	ILE	C	54	60.753	111.962	-8.358	1.00	100.07	C
ATOM	3941	CD	ILE	C	54	61.570	112.186	-7.095	1.00	100.07	C
ATOM	3942	C	ILE	C	54	62.105	115.129	-9.960	1.00	100.07	C
ATOM	3943	O	ILE	C	54	61.810	115.253	-11.155	1.00	100.07	C
ATOM	3944	N	GLU	C	55	63.202	115.636	-9.412	1.00	100.07	C
ATOM	3945	CA	GLU	C	55	64.160	116.433	-10.162	1.00	100.07	C
ATOM	3946	CB	GLU	C	55	64.719	117.563	-9.289	1.00	100.07	C
ATOM	3947	CG	GLU	C	55	63.714	118.412	-8.512	1.00	100.07	C
ATOM	3948	CD	GLU	C	55	64.137	118.662	-7.056	1.00	100.07	C
ATOM	3949	OE1	GLU	C	55	65.344	118.839	-6.784	1.00	100.07	C
ATOM	3950	OE2	GLU	C	55	63.243	118.689	-6.182	1.00	100.07	C
ATOM	3951	C	GLU	C	55	65.322	115.529	-10.518	1.00	100.07	C
ATOM	3952	O	GLU	C	55	65.555	114.522	-9.844	1.00	100.07	C
ATOM	3953	N	GLU	C	56	66.057	115.890	-11.565	1.00	85.09	C
ATOM	3954	CA	GLU	C	56	67.240	115.136	-11.970	1.00	85.09	C
ATOM	3955	CB	GLU	C	56	67.546	115.301	-13.476	1.00	100.07	C
ATOM	3956	CG	GLU	C	56	67.905	116.716	-13.971	1.00	100.07	C
ATOM	3957	CD	GLU	C	56	66.718	117.457	-14.580	1.00	100.07	C
ATOM	3958	OE1	GLU	C	56	66.059	116.895	-15.480	1.00	100.07	C
ATOM	3959	OE2	GLU	C	56	66.445	118.607	-14.161	1.00	100.07	C
ATOM	3960	C	GLU	C	56	68.392	115.721	-11.146	1.00	85.09	C
ATOM	3961	O	GLU	C	56	68.261	115.954	-9.955	1.00	85.09	C
ATOM	3962	N	ALA	C	57	69.520	115.952	-11.800	1.00	100.07	C
ATOM	3963	CA	ALA	C	57	70.688	116.533	-11.159	1.00	100.07	C
ATOM	3964	CB	ALA	C	57	71.891	115.528	-11.220	1.00	81.58	C
ATOM	3965	C	ALA	C	57	71.031	117.860	-11.876	1.00	100.07	C
ATOM	3966	O	ALA	C	57	70.352	118.274	-12.832	1.00	100.07	C
ATOM	3967	N	ALA	C	58	72.060	118.534	-11.372	1.00	100.07	C
ATOM	3968	CA	ALA	C	58	72.523	119.799	-11.951	1.00	100.07	C
ATOM	3969	CB	ALA	C	58	72.832	119.603	-13.456	1.00	88.65	C
ATOM	3970	C	ALA	C	58	71.633	121.040	-11.756	1.00	100.07	C
ATOM	3971	O	ALA	C	58	72.164	122.124	-11.511	1.00	100.07	C
ATOM	3972	N	ALA	C	59	70.308	120.878	-11.818	1.00	100.07	C
ATOM	3973	CA	ALA	C	59	69.363	121.990	-11.701	1.00	100.07	C
ATOM	3974	CB	ALA	C	59	69.776	122.953	-10.549	1.00	73.41	C
ATOM	3975	C	ALA	C	59	69.274	122.733	-13.046	1.00	100.07	C
ATOM	3976	O	ALA	C	59	69.697	123.879	-13.169	1.00	100.07	C
ATOM	3977	N	ALA	C	60	68.704	122.033	-14.025	1.00	100.07	C
ATOM	3978	CA	ALA	C	60	68.501	122.478	-15.418	1.00	100.07	C
ATOM	3979	CB	ALA	C	60	68.734	123.996	-15.594	1.00	100.07	C
ATOM	3980	C	ALA	C	60	69.436	121.675	-16.322	1.00	100.07	C
ATOM	3981	O	ALA	C	60	70.038	120.695	-15.872	1.00	100.07	C
ATOM	3982	N	ALA	C	61	69.533	122.076	-17.592	1.00	100.07	C
ATOM	3983	CA	ALA	C	61	70.363	121.410	-18.618	1.00	100.07	C
ATOM	3984	CB	ALA	C	61	71.570	120.723	-17.987	1.00	100.07	C
ATOM	3985	C	ALA	C	61	69.512	120.385	-19.390	1.00	100.07	C
ATOM	3986	O	ALA	C	61	68.289	120.457	-19.351	1.00	100.07	C
ATOM	3987	N	ALA	C	62	70.141	119.462	-20.123	1.00	100.07	C
ATOM	3988	CA	ALA	C	62	69.400	118.433	-20.882	1.00	100.07	C
ATOM	3989	CB	ALA	C	62	70.375	117.395	-21.466	1.00	100.07	C
ATOM	3990	C	ALA	C	62	68.382	117.756	-19.943	1.00	100.07	C
ATOM	3991	O	ALA	C	62	68.690	116.784	-19.235	1.00	100.07	C
ATOM	3992	N	ALA	C	63	67.169	118.311	-19.947	1.00	100.07	C
ATOM	3993	CA	ALA	C	63	66.061	117.889	-19.093	1.00	100.07	C
ATOM	3994	CB	ALA	C	63	64.807	118.689	-19.493	1.00	31.37	C

ATOM	3995	C	ALA	C	63	65.714	116.399	-18.943	1.00100.07	C
ATOM	3996	O	ALA	C	63	65.621	115.655	-19.923	1.00100.07	C
ATOM	3997	N	LEU	C	64	65.526	115.992	-17.683	1.00 99.55	C
ATOM	3998	CA	LEU	C	64	65.169	114.621	-17.292	1.00 99.55	C
ATOM	3999	CB	LEU	C	64	66.422	113.733	-17.185	1.00100.07	C
ATOM	4000	CG	LEU	C	64	66.507	112.380	-17.922	1.00100.07	C
ATOM	4001	CD1	LEU	C	64	67.912	111.798	-17.726	1.00100.07	C
ATOM	4002	CD2	LEU	C	64	65.450	111.407	-17.415	1.00100.07	C
ATOM	4003	C	LEU	C	64	64.499	114.708	-15.918	1.00 99.55	C
ATOM	4004	O	LEU	C	64	65.121	114.385	-14.908	1.00 99.55	C
ATOM	4005	N	VAL	C	65	63.244	115.163	-15.890	1.00100.07	C
ATOM	4006	CA	VAL	C	65	62.472	115.304	-14.650	1.00100.07	C
ATOM	4007	CB	VAL	C	65	62.309	116.786	-14.251	1.00100.07	C
ATOM	4008	CG1	VAL	C	65	60.950	117.010	-13.573	1.00100.07	C
ATOM	4009	CG2	VAL	C	65	63.439	117.185	-13.299	1.00100.07	C
ATOM	4010	C	VAL	C	65	61.079	114.671	-14.675	1.00100.07	C
ATOM	4011	O	VAL	C	65	60.302	114.859	-15.618	1.00100.07	C
ATOM	4012	N	LEU	C	66	60.769	113.947	-13.600	1.00 57.88	C
ATOM	4013	CA	LEU	C	66	59.485	113.276	-13.454	1.00 57.88	C
ATOM	4014	CB	LEU	C	66	59.680	111.955	-12.699	1.00100.07	C
ATOM	4015	CG	LEU	C	66	58.465	111.064	-12.426	1.00100.07	C
ATOM	4016	CD1	LEU	C	66	57.672	110.829	-13.702	1.00100.07	C
ATOM	4017	CD2	LEU	C	66	58.949	109.741	-11.833	1.00100.07	C
ATOM	4018	C	LEU	C	66	58.546	114.199	-12.687	1.00 57.88	C
ATOM	4019	O	LEU	C	66	58.964	115.238	-12.189	1.00 57.88	C
ATOM	4020	N	ASP	C	67	57.273	113.840	-12.617	1.00 64.25	C
ATOM	4021	CA	ASP	C	67	56.315	114.654	-11.890	1.00 64.25	C
ATOM	4022	CB	ASP	C	67	55.975	115.941	-12.664	1.00100.07	C
ATOM	4023	CG	ASP	C	67	55.108	115.691	-13.890	1.00100.07	C
ATOM	4024	OD1	ASP	C	67	55.411	114.752	-14.659	1.00100.07	C
ATOM	4025	OD2	ASP	C	67	54.130	116.451	-14.090	1.00100.07	C
ATOM	4026	C	ASP	C	67	55.074	113.829	-11.638	1.00 64.25	C
ATOM	4027	O	ASP	C	67	54.707	112.963	-12.432	1.00 64.25	C
ATOM	4028	N	PHE	C	68	54.425	114.114	-10.522	1.00 66.57	C
ATOM	4029	CA	PHE	C	68	53.252	113.379	-10.105	1.00 66.57	C
ATOM	4030	CB	PHE	C	68	53.213	113.339	-8.573	1.00100.07	C
ATOM	4031	CG	PHE	C	68	54.531	112.924	-7.950	1.00100.07	C
ATOM	4032	CD1	PHE	C	68	55.624	113.793	-7.936	1.00100.07	C
ATOM	4033	CD2	PHE	C	68	54.703	111.639	-7.447	1.00100.07	C
ATOM	4034	CE1	PHE	C	68	56.867	113.376	-7.436	1.00100.07	C
ATOM	4035	CE2	PHE	C	68	55.942	111.218	-6.947	1.00100.07	C
ATOM	4036	CZ	PHE	C	68	57.022	112.088	-6.945	1.00100.07	C
ATOM	4037	C	PHE	C	68	51.944	113.889	-10.658	1.00 66.57	C
ATOM	4038	O	PHE	C	68	51.899	114.866	-11.396	1.00 66.57	C
ATOM	4039	N	LEU	C	69	50.881	113.195	-10.280	1.00 95.34	C
ATOM	4040	CA	LEU	C	69	49.531	113.507	-10.709	1.00 95.34	C
ATOM	4041	CB	LEU	C	69	49.391	113.331	-12.216	1.00100.07	C
ATOM	4042	CG	LEU	C	69	49.315	114.595	-13.058	1.00100.07	C
ATOM	4043	CD1	LEU	C	69	48.891	114.220	-14.471	1.00100.07	C
ATOM	4044	CD2	LEU	C	69	48.312	115.564	-12.442	1.00100.07	C
ATOM	4045	C	LEU	C	69	48.583	112.538	-10.044	1.00 95.34	C
ATOM	4046	O	LEU	C	69	49.005	111.644	-9.309	1.00 95.34	C
ATOM	4047	N	GLU	C	70	47.299	112.726	-10.316	1.00100.07	C
ATOM	4048	CA	GLU	C	70	46.256	111.859	-9.791	1.00100.07	C
ATOM	4049	CB	GLU	C	70	45.807	110.893	-10.891	1.00100.07	C
ATOM	4050	CG	GLU	C	70	45.425	111.524	-12.218	1.00100.07	C
ATOM	4051	CD	GLU	C	70	43.941	111.500	-12.426	1.00100.07	C
ATOM	4052	OE1	GLU	C	70	43.246	112.323	-11.799	1.00100.07	C
ATOM	4053	OE2	GLU	C	70	43.472	110.641	-13.198	1.00100.07	C
ATOM	4054	C	GLU	C	70	46.670	111.040	-8.563	1.00100.07	C
ATOM	4055	O	GLU	C	70	47.365	111.521	-7.660	1.00100.07	C
ATOM	4056	N	TYR	C	71	46.230	109.786	-8.582	1.00 75.56	C
ATOM	4057	CA	TYR	C	71	46.433	108.778	-7.553	1.00 75.56	C
ATOM	4058	CB	TYR	C	71	46.438	109.401	-6.147	1.00100.07	C
ATOM	4059	CG	TYR	C	71	45.178	110.178	-5.798	1.00100.07	C
ATOM	4060	CD1	TYR	C	71	44.012	109.522	-5.395	1.00100.07	C
ATOM	4061	CE1	TYR	C	71	42.834	110.238	-5.105	1.00100.07	C
ATOM	4062	CD2	TYR	C	71	45.144	111.570	-5.899	1.00100.07	C
ATOM	4063	CE2	TYR	C	71	43.977	112.293	-5.613	1.00100.07	C
ATOM	4064	CZ	TYR	C	71	42.826	111.625	-5.216	1.00100.07	C
ATOM	4065	OH	TYR	C	71	41.690	112.358	-4.932	1.00100.07	C
ATOM	4066	C	TYR	C	71	45.219	107.865	-7.720	1.00 75.56	C
ATOM	4067	O	TYR	C	71	44.085	108.338	-7.858	1.00 75.56	C
ATOM	4068	N	ARG	C	72	45.438	106.560	-7.753	1.00 57.59	C
ATOM	4069	CA	ARG	C	72	44.301	105.674	-7.914	1.00 57.59	C
ATOM	4070	CB	ARG	C	72	43.982	105.494	-9.401	1.00100.07	C
ATOM	4071	CG	ARG	C	72	43.500	106.759	-10.104	1.00100.07	C
ATOM	4072	CD	ARG	C	72	43.271	106.502	-11.593	1.00100.07	C
ATOM	4073	NE	ARG	C	72	42.780	107.675	-12.329	1.00100.07	C
ATOM	4074	CZ	ARG	C	72	42.475	107.665	-13.629	1.00100.07	C
ATOM	4075	NH1	ARG	C	72	42.614	106.543	-14.330	1.00100.07	C
ATOM	4076	NH2	ARG	C	72	42.029	108.767	-14.233	1.00100.07	C
ATOM	4077	C	ARG	C	72	44.448	104.310	-7.257	1.00 57.59	C
ATOM	4078	O	ARG	C	72	45.223	103.465	-7.718	1.00 57.59	C

ATOM	4079	N	ILE	C	73	43.729	104.102	-6.155	1.00	63.88	C
ATOM	4080	CA	ILE	C	73	43.753	102.805	-5.486	1.00	63.88	C
ATOM	4081	CB	ILE	C	73	43.574	102.891	-3.953	1.00	100.07	C
ATOM	4082	CG2	ILE	C	73	44.622	102.078	-3.267	1.00	100.07	C
ATOM	4083	CG1	ILE	C	73	43.566	104.335	-3.483	1.00	100.07	C
ATOM	4084	CD	ILE	C	73	42.175	104.768	-3.007	1.00	100.07	C
ATOM	4085	C	ILE	C	73	42.480	102.205	-6.020	1.00	63.88	C
ATOM	4086	O	ILE	C	73	41.550	102.952	-6.328	1.00	63.88	C
ATOM	4087	N	GLY	C	74	42.399	100.888	-6.138	1.00	44.96	C
ATOM	4088	CA	GLY	C	74	41.148	100.354	-6.632	1.00	44.96	C
ATOM	4089	C	GLY	C	74	40.924	98.877	-6.468	1.00	44.96	C
ATOM	4090	O	GLY	C	74	41.841	98.124	-6.132	1.00	44.96	C
ATOM	4091	N	ASP	C	75	39.677	98.474	-6.688	1.00	61.25	C
ATOM	4092	CA	ASP	C	75	39.300	97.078	-6.613	1.00	61.25	C
ATOM	4093	CB	ASP	C	75	39.288	96.480	-8.028	1.00	100.07	C
ATOM	4094	CG	ASP	C	75	40.471	96.965	-8.906	1.00	100.07	C
ATOM	4095	OD1	ASP	C	75	40.641	98.191	-9.095	1.00	100.07	C
ATOM	4096	OD2	ASP	C	75	41.226	96.119	-9.436	1.00	100.07	C
ATOM	4097	C	ASP	C	75	40.181	96.218	-5.713	1.00	61.25	C
ATOM	4098	O	ASP	C	75	41.273	95.786	-6.117	1.00	61.25	C
ATOM	4099	N	PRO	C	76	39.734	95.979	-4.466	1.00	77.46	C
ATOM	4100	CD	PRO	C	76	38.632	96.635	-3.745	1.00	86.05	C
ATOM	4101	CA	PRO	C	76	40.526	95.146	-3.560	1.00	77.46	C
ATOM	4102	CB	PRO	C	76	39.699	95.140	-2.265	1.00	86.05	C
ATOM	4103	CG	PRO	C	76	38.326	95.626	-2.678	1.00	86.05	C
ATOM	4104	C	PRO	C	76	40.700	93.761	-4.196	1.00	77.46	C
ATOM	4105	O	PRO	C	76	39.734	93.129	-4.598	1.00	77.46	C
ATOM	4106	N	PRO	C	77	41.945	93.278	-4.278	1.00	54.01	C
ATOM	4107	CD	PRO	C	77	42.936	93.689	-3.269	1.00	64.03	C
ATOM	4108	CA	PRO	C	77	42.324	91.991	-4.859	1.00	54.01	C
ATOM	4109	CB	PRO	C	77	43.742	91.799	-4.366	1.00	64.03	C
ATOM	4110	CG	PRO	C	77	43.682	92.410	-3.004	1.00	64.03	C
ATOM	4111	C	PRO	C	77	41.414	90.884	-4.392	1.00	54.01	C
ATOM	4112	O	PRO	C	77	40.760	90.225	-5.202	1.00	54.01	C
ATOM	4113	N	PHE	C	78	41.390	90.676	-3.079	1.00	58.09	C
ATOM	4114	CA	PHE	C	78	40.554	89.647	-2.454	1.00	58.09	C
ATOM	4115	CB	PHE	C	78	41.398	88.629	-1.699	1.00	98.77	C
ATOM	4116	CG	PHE	C	78	41.846	87.485	-2.530	1.00	98.77	C
ATOM	4117	CD1	PHE	C	78	43.037	87.554	-3.225	1.00	98.77	C
ATOM	4118	CD2	PHE	C	78	41.091	86.321	-2.588	1.00	98.77	C
ATOM	4119	CE1	PHE	C	78	43.483	86.476	-3.965	1.00	98.77	C
ATOM	4120	CE2	PHE	C	78	41.526	85.234	-3.328	1.00	98.77	C
ATOM	4121	CZ	PHE	C	78	42.728	85.310	-4.018	1.00	98.77	C
ATOM	4122	C	PHE	C	78	39.607	90.303	-1.473	1.00	58.09	C
ATOM	4123	O	PHE	C	78	39.590	91.533	-1.366	1.00	58.09	C
ATOM	4124	N	SER	C	79	38.828	89.489	-0.763	1.00	60.18	C
ATOM	4125	CA	SER	C	79	37.869	89.992	0.207	1.00	60.18	C
ATOM	4126	CB	SER	C	79	36.446	89.566	-0.171	1.00	100.07	C
ATOM	4127	OG	SER	C	79	36.154	88.258	0.298	1.00	100.07	C
ATOM	4128	C	SER	C	79	38.130	89.512	1.619	1.00	60.18	C
ATOM	4129	O	SER	C	79	38.856	88.550	1.843	1.00	60.18	C
ATOM	4130	N	GLN	C	80	37.517	90.209	2.567	1.00	78.53	C
ATOM	4131	CA	GLN	C	80	37.615	89.851	3.962	1.00	78.53	C
ATOM	4132	CB	GLN	C	80	36.744	90.789	4.805	1.00	100.07	C
ATOM	4133	CG	GLN	C	80	35.437	91.250	4.115	1.00	100.07	C
ATOM	4134	CD	GLN	C	80	34.297	91.448	5.105	1.00	100.07	C
ATOM	4135	OE1	GLN	C	80	34.394	92.274	6.017	1.00	100.07	C
ATOM	4136	NE2	GLN	C	80	33.215	90.678	4.937	1.00	100.07	C
ATOM	4137	C	GLN	C	80	37.117	88.408	4.078	1.00	78.53	C
ATOM	4138	O	GLN	C	80	36.103	88.057	3.489	1.00	78.53	C
ATOM	4139	N	ASP	C	81	37.848	87.597	4.838	1.00	87.72	C
ATOM	4140	CA	ASP	C	81	37.545	86.181	5.067	1.00	87.72	C
ATOM	4141	CB	ASP	C	81	36.031	85.894	5.051	1.00	100.07	C
ATOM	4142	CG	ASP	C	81	35.464	85.571	6.445	1.00	100.07	C
ATOM	4143	OD1	ASP	C	81	34.766	86.436	7.028	1.00	100.07	C
ATOM	4144	OD2	ASP	C	81	35.716	84.461	6.962	1.00	100.07	C
ATOM	4145	C	ASP	C	81	38.255	85.294	4.057	1.00	87.72	C
ATOM	4146	O	ASP	C	81	38.748	84.229	4.416	1.00	87.72	C
ATOM	4147	N	GLU	C	82	38.292	85.718	2.794	1.00	77.33	C
ATOM	4148	CA	GLU	C	82	39.032	84.953	1.787	1.00	77.33	C
ATOM	4149	CB	GLU	C	82	38.857	85.492	0.365	1.00	100.07	C
ATOM	4150	CG	GLU	C	82	37.467	85.559	-0.184	1.00	100.07	C
ATOM	4151	CD	GLU	C	82	37.465	86.160	-1.571	1.00	100.07	C
ATOM	4152	OE1	GLU	C	82	38.085	87.235	-1.743	1.00	100.07	C
ATOM	4153	OE2	GLU	C	82	36.845	85.559	-2.480	1.00	100.07	C
ATOM	4154	C	GLU	C	82	40.428	85.312	2.203	1.00	77.33	C
ATOM	4155	O	GLU	C	82	41.351	84.507	2.124	1.00	77.33	C
ATOM	4156	N	CYS	C	83	40.556	86.561	2.637	1.00	33.66	C
ATOM	4157	CA	CYS	C	83	41.819	87.108	3.081	1.00	33.66	C
ATOM	4158	CB	CYS	C	83	41.656	88.559	3.479	1.00	42.30	C
ATOM	4159	SG	CYS	C	83	42.498	89.654	2.355	1.00	42.30	C
ATOM	4160	C	CYS	C	83	42.335	86.335	4.253	1.00	33.66	C
ATOM	4161	O	CYS	C	83	43.341	85.642	4.145	1.00	33.66	C
ATOM	4162	N	ARG	C	84	41.645	86.438	5.382	1.00	40.55	C

ATOM	4163	CA	ARG	C	84	42.079	85.720	6.580	1.00	40.55	C
ATOM	4164	CB	ARG	C	84	41.086	85.954	7.715	1.00	60.20	C
ATOM	4165	CG	ARG	C	84	40.630	87.404	7.827	1.00	60.20	C
ATOM	4166	CD	ARG	C	84	39.392	87.509	8.709	1.00	60.20	C
ATOM	4167	NE	ARG	C	84	38.602	88.714	8.456	1.00	60.20	C
ATOM	4168	CZ	ARG	C	84	37.357	88.888	8.890	1.00	60.20	C
ATOM	4169	NH1	ARG	C	84	36.762	87.933	9.597	1.00	60.20	C
ATOM	4170	NH2	ARG	C	84	36.705	90.008	8.609	1.00	60.20	C
ATOM	4171	C	ARG	C	84	42.205	84.224	6.288	1.00	40.55	C
ATOM	4172	O	ARG	C	84	43.157	83.579	6.717	1.00	40.55	C
ATOM	4173	N	GLU	C	85	41.249	83.684	5.539	1.00	54.53	C
ATOM	4174	CA	GLU	C	85	41.271	82.268	5.205	1.00	54.53	C
ATOM	4175	CB	GLU	C	85	40.133	81.925	4.241	1.00	100.07	C
ATOM	4176	CG	GLU	C	85	39.920	80.430	4.047	1.00	100.07	C
ATOM	4177	CD	GLU	C	85	38.512	80.088	3.584	1.00	100.07	C
ATOM	4178	OE1	GLU	C	85	38.111	80.537	2.485	1.00	100.07	C
ATOM	4179	OE2	GLU	C	85	37.801	79.367	4.327	1.00	100.07	C
ATOM	4180	C	GLU	C	85	42.606	81.896	4.587	1.00	54.53	C
ATOM	4181	O	GLU	C	85	43.318	81.043	5.111	1.00	54.53	C
ATOM	4182	N	LYS	C	86	42.947	82.563	3.488	1.00	65.18	C
ATOM	4183	CA	LYS	C	86	44.186	82.301	2.773	1.00	65.18	C
ATOM	4184	CB	LYS	C	86	43.964	82.518	1.274	1.00	100.07	C
ATOM	4185	CG	LYS	C	86	43.028	81.487	0.660	1.00	100.07	C
ATOM	4186	CD	LYS	C	86	42.558	81.876	-0.726	1.00	100.07	C
ATOM	4187	CE	LYS	C	86	41.580	80.846	-1.281	1.00	100.07	C
ATOM	4188	NZ	LYS	C	86	40.652	81.452	-2.278	1.00	100.07	C
ATOM	4189	C	LYS	C	86	45.317	83.187	3.259	1.00	65.18	C
ATOM	4190	O	LYS	C	86	46.149	83.611	2.470	1.00	65.18	C
ATOM	4191	N	ASP	C	87	45.359	83.452	4.560	1.00	100.07	C
ATOM	4192	CA	ASP	C	87	46.399	84.302	5.129	1.00	100.07	C
ATOM	4193	CB	ASP	C	87	47.588	83.475	5.619	1.00	70.60	C
ATOM	4194	CG	ASP	C	87	47.361	82.870	6.997	1.00	70.60	C
ATOM	4195	OD1	ASP	C	87	46.695	83.499	7.841	1.00	70.60	C
ATOM	4196	OD2	ASP	C	87	47.874	81.766	7.254	1.00	70.60	C
ATOM	4197	C	ASP	C	87	46.897	85.329	4.132	1.00	100.07	C
ATOM	4198	O	ASP	C	87	48.034	85.261	3.682	1.00	100.07	C
ATOM	4199	N	LEU	C	88	46.035	86.271	3.778	1.00	100.04	C
ATOM	4200	CA	LEU	C	88	46.408	87.329	2.854	1.00	100.04	C
ATOM	4201	CB	LEU	C	88	45.838	87.060	1.458	1.00	94.76	C
ATOM	4202	CG	LEU	C	88	46.548	85.963	0.653	1.00	94.76	C
ATOM	4203	CD1	LEU	C	88	46.111	86.008	-0.807	1.00	94.76	C
ATOM	4204	CD2	LEU	C	88	48.045	86.167	0.729	1.00	94.76	C
ATOM	4205	C	LEU	C	88	45.891	88.665	3.374	1.00	100.04	C
ATOM	4206	O	LEU	C	88	44.699	88.811	3.631	1.00	100.04	C
ATOM	4207	N	THR	C	89	46.794	89.626	3.548	1.00	71.47	C
ATOM	4208	CA	THR	C	89	46.444	90.958	4.042	1.00	71.47	C
ATOM	4209	CB	THR	C	89	47.664	91.895	3.980	1.00	100.07	C
ATOM	4210	OG1	THR	C	89	48.741	91.340	4.752	1.00	100.07	C
ATOM	4211	CG2	THR	C	89	47.314	93.242	4.547	1.00	100.07	C
ATOM	4212	C	THR	C	89	45.309	91.572	3.217	1.00	71.47	C
ATOM	4213	O	THR	C	89	45.170	91.264	2.035	1.00	71.47	C
ATOM	4214	N	TYR	C	90	44.509	92.440	3.826	1.00	76.50	C
ATOM	4215	CA	TYR	C	90	43.387	93.050	3.117	1.00	76.50	C
ATOM	4216	CB	TYR	C	90	42.228	93.284	4.074	1.00	99.63	C
ATOM	4217	CG	TYR	C	90	40.981	93.806	3.406	1.00	99.63	C
ATOM	4218	CD1	TYR	C	90	40.580	93.323	2.163	1.00	99.63	C
ATOM	4219	CE1	TYR	C	90	39.449	93.803	1.555	1.00	99.63	C
ATOM	4220	CD2	TYR	C	90	40.204	94.786	4.013	1.00	99.63	C
ATOM	4221	CE2	TYR	C	90	39.062	95.269	3.403	1.00	99.63	C
ATOM	4222	CZ	TYR	C	90	38.699	94.776	2.171	1.00	99.63	C
ATOM	4223	OH	TYR	C	90	37.596	95.283	1.532	1.00	99.63	C
ATOM	4224	C	TYR	C	90	43.779	94.361	2.458	1.00	76.50	C
ATOM	4225	O	TYR	C	90	43.243	95.411	2.797	1.00	76.50	C
ATOM	4226	N	GLN	C	91	44.698	94.282	1.523	1.00	31.86	C
ATOM	4227	CA	GLN	C	91	45.180	95.451	0.793	1.00	31.86	C
ATOM	4228	CB	GLN	C	91	46.666	95.294	0.493	1.00	100.07	C
ATOM	4229	CG	GLN	C	91	47.560	95.167	1.722	1.00	100.07	C
ATOM	4230	CD	GLN	C	91	48.954	94.690	1.372	1.00	100.07	C
ATOM	4231	OE1	GLN	C	91	49.097	93.788	0.548	1.00	100.07	C
ATOM	4232	NE2	GLN	C	91	49.979	95.265	2.000	1.00	100.07	C
ATOM	4233	C	GLN	C	91	44.443	95.672	-0.535	1.00	31.86	C
ATOM	4234	O	GLN	C	91	43.605	94.859	-0.943	1.00	31.86	C
ATOM	4235	N	ALA	C	92	44.763	96.766	-1.193	1.00	44.62	C
ATOM	4236	CA	ALA	C	92	44.155	97.116	-2.482	1.00	44.62	C
ATOM	4237	CB	ALA	C	92	42.937	97.984	-2.259	1.00	77.59	C
ATOM	4238	C	ALA	C	92	45.176	97.864	-3.331	1.00	44.62	C
ATOM	4239	O	ALA	C	92	45.713	98.879	-2.933	1.00	44.62	C
ATOM	4240	N	PRO	C	93	45.445	97.360	-4.531	1.00	71.69	C
ATOM	4241	CD	PRO	C	93	44.722	96.322	-5.271	1.00	83.08	C
ATOM	4242	CA	PRO	C	93	46.426	98.053	-5.370	1.00	71.69	C
ATOM	4243	CB	PRO	C	93	46.297	97.338	-6.709	1.00	83.08	C
ATOM	4244	CG	PRO	C	93	44.880	96.804	-6.673	1.00	83.08	C
ATOM	4245	C	PRO	C	93	46.229	99.558	-5.498	1.00	71.69	C
ATOM	4246	O	PRO	C	93	45.096	100.046	-5.586	1.00	71.69	C

ATOM	4247	N	LEU	C	94	47.335	100.295	-5.501	1.00	46.46	C
ATOM	4248	CA	LEU	C	94	47.299	101.746	-5.644	1.00	46.46	C
ATOM	4249	CB	LEU	C	94	47.569	102.450	-4.301	1.00	100.07	C
ATOM	4250	CG	LEU	C	94	47.791	103.983	-4.362	1.00	100.07	C
ATOM	4251	CD1	LEU	C	94	46.785	104.634	-5.345	1.00	100.07	C
ATOM	4252	CD2	LEU	C	94	47.710	104.596	-2.953	1.00	100.07	C
ATOM	4253	C	LEU	C	94	48.333	102.204	-6.653	1.00	46.46	C
ATOM	4254	O	LEU	C	94	49.527	102.007	-6.444	1.00	46.46	C
ATOM	4255	N	TYR	C	95	47.875	102.814	-7.738	1.00	38.72	C
ATOM	4256	CA	TYR	C	95	48.785	103.327	-8.755	1.00	38.72	C
ATOM	4257	CB	TYR	C	95	48.677	102.477	-10.034	1.00	99.71	C
ATOM	4258	CG	TYR	C	95	47.277	102.114	-10.492	1.00	99.71	C
ATOM	4259	CD1	TYR	C	95	46.387	103.090	-10.940	1.00	99.71	C
ATOM	4260	CE1	TYR	C	95	45.122	102.750	-11.458	1.00	99.71	C
ATOM	4261	CD2	TYR	C	95	46.870	100.784	-10.557	1.00	99.71	C
ATOM	4262	CE2	TYR	C	95	45.613	100.432	-11.071	1.00	99.71	C
ATOM	4263	CZ	TYR	C	95	44.746	101.421	-11.526	1.00	99.71	C
ATOM	4264	OH	TYR	C	95	43.531	101.094	-12.096	1.00	99.71	C
ATOM	4265	C	TYR	C	95	48.472	104.817	-9.027	1.00	38.72	C
ATOM	4266	O	TYR	C	95	47.469	105.347	-8.527	1.00	38.72	C
ATOM	4267	N	ALA	C	96	49.335	105.497	-9.785	1.00	49.87	C
ATOM	4268	CA	ALA	C	96	49.115	106.910	-10.109	1.00	49.87	C
ATOM	4269	CB	ALA	C	96	49.384	107.775	-8.892	1.00	87.08	C
ATOM	4270	C	ALA	C	96	49.998	107.360	-11.276	1.00	49.87	C
ATOM	4271	O	ALA	C	96	51.215	107.232	-11.198	1.00	49.87	C
ATOM	4272	N	ARG	C	97	49.390	107.895	-12.339	1.00	37.17	C
ATOM	4273	CA	ARG	C	97	50.116	108.347	-13.539	1.00	37.17	C
ATOM	4274	CB	ARG	C	97	49.146	108.899	-14.587	1.00	100.07	C
ATOM	4275	CG	ARG	C	97	48.033	107.979	-15.033	1.00	100.07	C
ATOM	4276	CD	ARG	C	97	47.021	108.749	-15.880	1.00	100.07	C
ATOM	4277	NE	ARG	C	97	45.816	107.967	-16.137	1.00	100.07	C
ATOM	4278	CZ	ARG	C	97	44.762	108.405	-16.820	1.00	100.07	C
ATOM	4279	NH1	ARG	C	97	44.754	109.633	-17.327	1.00	100.07	C
ATOM	4280	NH2	ARG	C	97	43.712	107.610	-16.994	1.00	100.07	C
ATOM	4281	C	ARG	C	97	51.139	109.440	-13.270	1.00	37.17	C
ATOM	4282	O	ARG	C	97	50.789	110.494	-12.749	1.00	37.17	C
ATOM	4283	N	LEU	C	98	52.390	109.200	-13.656	1.00	70.64	C
ATOM	4284	CA	LEU	C	98	53.468	110.172	-13.472	1.00	70.64	C
ATOM	4285	CB	LEU	C	98	54.628	109.533	-12.708	1.00	99.56	C
ATOM	4286	CG	LEU	C	98	54.248	108.906	-11.363	1.00	99.56	C
ATOM	4287	CD1	LEU	C	98	55.483	108.366	-10.655	1.00	99.56	C
ATOM	4288	CD2	LEU	C	98	53.566	109.951	-10.503	1.00	99.56	C
ATOM	4289	C	LEU	C	98	53.927	110.598	-14.860	1.00	70.64	C
ATOM	4290	O	LEU	C	98	53.318	110.195	-15.847	1.00	70.64	C
ATOM	4291	N	GLN	C	99	54.994	111.390	-14.952	1.00	48.44	C
ATOM	4292	CA	GLN	C	99	55.470	111.848	-16.261	1.00	48.44	C
ATOM	4293	CB	GLN	C	99	54.624	113.013	-16.761	1.00	99.92	C
ATOM	4294	CG	GLN	C	99	53.177	112.716	-16.978	1.00	99.92	C
ATOM	4295	CD	GLN	C	99	52.391	113.959	-17.330	1.00	99.92	C
ATOM	4296	OE1	GLN	C	99	52.616	114.573	-18.373	1.00	99.92	C
ATOM	4297	NE2	GLN	C	99	51.460	114.341	-16.458	1.00	99.92	C
ATOM	4298	C	GLN	C	99	56.906	112.329	-16.282	1.00	48.44	C
ATOM	4299	O	GLN	C	99	57.297	113.132	-15.440	1.00	48.44	C
ATOM	4300	N	LEU	C	100	57.692	111.864	-17.247	1.00	56.30	C
ATOM	4301	CA	LEU	C	100	59.062	112.349	-17.359	1.00	56.30	C
ATOM	4302	CB	LEU	C	100	59.944	111.394	-18.142	1.00	97.08	C
ATOM	4303	CG	LEU	C	100	59.726	109.908	-17.952	1.00	97.08	C
ATOM	4304	CD1	LEU	C	100	59.622	109.289	-19.323	1.00	97.08	C
ATOM	4305	CD2	LEU	C	100	60.856	109.297	-17.144	1.00	97.08	C
ATOM	4306	C	LEU	C	100	58.909	113.606	-18.188	1.00	56.30	C
ATOM	4307	O	LEU	C	100	57.952	113.741	-18.951	1.00	56.30	C
ATOM	4308	N	ILE	C	101	59.842	114.530	-18.054	1.00	99.85	C
ATOM	4309	CA	ILE	C	101	59.772	115.747	-18.829	1.00	99.85	C
ATOM	4310	CB	ILE	C	101	59.283	116.908	-17.950	1.00	100.07	C
ATOM	4311	CG2	ILE	C	101	59.308	118.217	-18.735	1.00	100.07	C
ATOM	4312	CG1	ILE	C	101	57.860	116.578	-17.460	1.00	100.07	C
ATOM	4313	CD	ILE	C	101	57.155	117.678	-16.675	1.00	100.07	C
ATOM	4314	C	ILE	C	101	61.176	115.948	-19.362	1.00	99.85	C
ATOM	4315	O	ILE	C	101	62.139	115.500	-18.740	1.00	99.85	C
ATOM	4316	N	HIS	C	102	61.299	116.579	-20.523	1.00	77.59	C
ATOM	4317	CA	HIS	C	102	62.614	116.754	-21.123	1.00	77.59	C
ATOM	4318	CB	HIS	C	102	62.802	115.728	-22.235	1.00	100.07	C
ATOM	4319	CG	HIS	C	102	62.959	114.319	-21.750	1.00	100.07	C
ATOM	4320	CD2	HIS	C	102	63.493	113.821	-20.608	1.00	100.07	C
ATOM	4321	ND1	HIS	C	102	62.602	113.227	-22.515	1.00	100.07	C
ATOM	4322	CE1	HIS	C	102	62.914	112.119	-21.867	1.00	100.07	C
ATOM	4323	NE2	HIS	C	102	63.455	112.447	-20.714	1.00	100.07	C
ATOM	4324	C	HIS	C	102	62.939	118.128	-21.678	1.00	77.59	C
ATOM	4325	O	HIS	C	102	62.096	119.024	-21.743	1.00	77.59	C
ATOM	4326	N	LYS	C	103	64.203	118.257	-22.071	1.00	100.07	C
ATOM	4327	CA	LYS	C	103	64.743	119.474	-22.658	1.00	100.07	C
ATOM	4328	CB	LYS	C	103	66.151	119.759	-22.120	1.00	100.07	C
ATOM	4329	CG	LYS	C	103	66.675	121.111	-22.547	1.00	100.07	C
ATOM	4330	CD	LYS	C	103	65.645	122.170	-22.196	1.00	100.07	C

ATOM	4331	CE	LYS	C	103	66.091	123.545	-22.632	1.00100.07	C
ATOM	4332	NZ	LYS	C	103	65.001	124.542	-22.380	1.00100.07	C
ATOM	4333	C	LYS	C	103	64.825	119.269	-24.160	1.00100.07	C
ATOM	4334	O	LYS	C	103	65.009	120.214	-24.925	1.00100.07	C
ATOM	4335	N	ASP	C	104	64.708	118.003	-24.555	1.00 67.51	C
ATOM	4336	CA	ASP	C	104	64.742	117.584	-25.943	1.00 67.51	C
ATOM	4337	CB	ASP	C	104	65.471	116.239	-26.057	1.00100.07	C
ATOM	4338	CG	ASP	C	104	65.095	115.273	-24.945	1.00100.07	C
ATOM	4339	OD1	ASP	C	104	65.371	115.584	-23.762	1.00100.07	C
ATOM	4340	OD2	ASP	C	104	64.526	114.207	-25.258	1.00100.07	C
ATOM	4341	C	ASP	C	104	63.296	117.457	-26.389	1.00 67.51	C
ATOM	4342	O	ASP	C	104	62.995	116.842	-27.408	1.00 67.51	C
ATOM	4343	N	THR	C	105	62.398	118.065	-25.624	1.00100.07	C
ATOM	4344	CA	THR	C	105	60.978	117.999	-25.942	1.00100.07	C
ATOM	4345	CB	THR	C	105	60.687	118.617	-27.355	1.00100.07	C
ATOM	4346	OG1	THR	C	105	60.778	120.047	-27.268	1.00100.07	C
ATOM	4347	CG2	THR	C	105	59.297	118.238	-27.859	1.00100.07	C
ATOM	4348	C	THR	C	105	60.531	116.526	-25.867	1.00100.07	C
ATOM	4349	O	THR	C	105	60.421	115.833	-26.885	1.00100.07	C
ATOM	4350	N	GLY	C	106	60.307	116.058	-24.639	1.00 91.69	C
ATOM	4351	CA	GLY	C	106	59.873	114.694	-24.395	1.00 91.69	C
ATOM	4352	C	GLY	C	106	58.988	114.721	-23.168	1.00 91.69	C
ATOM	4353	O	GLY	C	106	59.471	114.980	-22.067	1.00 91.69	C
ATOM	4354	N	LEU	C	107	57.695	114.467	-23.359	1.00 83.98	C
ATOM	4355	CA	LEU	C	107	56.726	114.468	-22.264	1.00 83.98	C
ATOM	4356	CB	LEU	C	107	55.796	115.661	-22.419	1.00100.07	C
ATOM	4357	CG	LEU	C	107	56.562	116.956	-22.681	1.00100.07	C
ATOM	4358	CD1	LEU	C	107	55.603	118.031	-23.146	1.00100.07	C
ATOM	4359	CD2	LEU	C	107	57.319	117.376	-21.420	1.00100.07	C
ATOM	4360	C	LEU	C	107	55.891	113.188	-22.215	1.00 83.98	C
ATOM	4361	O	LEU	C	107	54.809	113.134	-22.795	1.00 83.98	C
ATOM	4362	N	ILE	C	108	56.389	112.174	-21.508	1.00 99.90	C
ATOM	4363	CA	ILE	C	108	55.699	110.890	-21.392	1.00 99.90	C
ATOM	4364	CB	ILE	C	108	56.715	109.716	-21.334	1.00 98.56	C
ATOM	4365	CG2	ILE	C	108	55.985	108.389	-21.242	1.00 98.56	C
ATOM	4366	CG1	ILE	C	108	57.624	109.731	-22.568	1.00 98.56	C
ATOM	4367	CD	ILE	C	108	58.798	110.695	-22.462	1.00100.07	C
ATOM	4368	C	ILE	C	108	54.769	110.761	-20.173	1.00 99.90	C
ATOM	4369	O	ILE	C	108	54.928	111.461	-19.166	1.00 99.90	C
ATOM	4370	N	LYS	C	109	53.798	109.851	-20.291	1.00 83.23	C
ATOM	4371	CA	LYS	C	109	52.824	109.545	-19.237	1.00 83.23	C
ATOM	4372	CB	LYS	C	109	51.456	110.164	-19.541	1.00 63.06	C
ATOM	4373	CG	LYS	C	109	51.423	111.668	-19.522	1.00 63.06	C
ATOM	4374	CD	LYS	C	109	50.018	112.171	-19.298	1.00 63.06	C
ATOM	4375	CE	LYS	C	109	49.999	113.681	-19.374	1.00 63.06	C
ATOM	4376	NZ	LYS	C	109	48.740	114.222	-18.831	1.00 63.06	C
ATOM	4377	C	LYS	C	109	52.652	108.029	-19.143	1.00 83.23	C
ATOM	4378	O	LYS	C	109	52.062	107.411	-20.031	1.00 83.23	C
ATOM	4379	N	GLU	C	110	53.165	107.427	-18.077	1.00 77.31	C
ATOM	4380	CA	GLU	C	110	53.030	105.989	-17.918	1.00 77.31	C
ATOM	4381	CB	GLU	C	110	54.172	105.414	-17.089	1.00100.07	C
ATOM	4382	CG	GLU	C	110	55.357	105.003	-17.924	1.00100.07	C
ATOM	4383	CD	GLU	C	110	55.059	103.793	-18.771	1.00100.07	C
ATOM	4384	OE1	GLU	C	110	54.516	102.810	-18.216	1.00100.07	C
ATOM	4385	OE2	GLU	C	110	55.368	103.820	-19.984	1.00100.07	C
ATOM	4386	C	GLU	C	110	51.710	105.629	-17.285	1.00 77.31	C
ATOM	4387	O	GLU	C	110	51.303	106.202	-16.269	1.00 77.31	C
ATOM	4388	N	ASP	C	111	51.052	104.662	-17.902	1.00100.07	C
ATOM	4389	CA	ASP	C	111	49.759	104.205	-17.433	1.00100.07	C
ATOM	4390	CB	ASP	C	111	49.245	103.058	-18.298	1.00100.07	C
ATOM	4391	CG	ASP	C	111	48.849	103.516	-19.679	1.00100.07	C
ATOM	4392	OD1	ASP	C	111	48.002	104.435	-19.768	1.00100.07	C
ATOM	4393	OD2	ASP	C	111	49.382	102.961	-20.665	1.00100.07	C
ATOM	4394	C	ASP	C	111	49.703	103.773	-15.984	1.00100.07	C
ATOM	4395	O	ASP	C	111	50.098	102.661	-15.635	1.00100.07	C
ATOM	4396	N	GLU	C	112	49.193	104.673	-15.155	1.00 60.24	C
ATOM	4397	CA	GLU	C	112	49.015	104.385	-13.757	1.00 60.24	C
ATOM	4398	CB	GLU	C	112	48.143	103.135	-13.599	1.00100.07	C
ATOM	4399	CG	GLU	C	112	46.899	103.094	-14.486	1.00100.07	C
ATOM	4400	CD	GLU	C	112	45.965	104.272	-14.275	1.00100.07	C
ATOM	4401	OE1	GLU	C	112	46.219	105.068	-13.347	1.00100.07	C
ATOM	4402	OE2	GLU	C	112	44.974	104.396	-15.030	1.00100.07	C
ATOM	4403	C	GLU	C	112	50.340	104.145	-13.080	1.00 60.24	C
ATOM	4404	O	GLU	C	112	50.612	104.731	-12.038	1.00 60.24	C
ATOM	4405	N	VAL	C	113	51.159	103.280	-13.661	1.00 82.31	C
ATOM	4406	CA	VAL	C	113	52.428	102.960	-13.046	1.00 82.31	C
ATOM	4407	CB	VAL	C	113	53.241	104.206	-12.822	1.00100.07	C
ATOM	4408	CG1	VAL	C	113	54.650	103.836	-12.419	1.00100.07	C
ATOM	4409	CG2	VAL	C	113	53.204	105.051	-14.067	1.00100.07	C
ATOM	4410	C	VAL	C	113	52.007	102.384	-11.702	1.00 82.31	C
ATOM	4411	O	VAL	C	113	52.154	103.006	-10.645	1.00 82.31	C
ATOM	4412	N	PHE	C	114	51.436	101.192	-11.770	1.00 52.03	C
ATOM	4413	CA	PHE	C	114	50.933	100.486	-10.606	1.00 52.03	C
ATOM	4414	CB	PHE	C	114	50.599	99.042	-11.019	1.00100.07	C

ATOM	4415	CG	PHE	C	114	49.751	98.951	-12.287	1.00100.07	C
ATOM	4416	CD1	PHE	C	114	50.295	99.269	-13.538	1.00100.07	C
ATOM	4417	CD2	PHE	C	114	48.401	98.590	-12.224	1.00100.07	C
ATOM	4418	CE1	PHE	C	114	49.507	99.236	-14.706	1.00100.07	C
ATOM	4419	CE2	PHE	C	114	47.607	98.556	-13.391	1.00100.07	C
ATOM	4420	CZ	PHE	C	114	48.165	98.879	-14.629	1.00100.07	C
ATOM	4421	C	PHE	C	114	51.935	100.561	-9.454	1.00 52.03	C
ATOM	4422	O	PHE	C	114	53.125	100.791	-9.664	1.00 52.03	C
ATOM	4423	N	LEU	C	115	51.456	100.380	-8.233	1.00 99.90	C
ATOM	4424	CA	LEU	C	115	52.350	100.469	-7.096	1.00 99.90	C
ATOM	4425	CB	LEU	C	115	52.359	101.915	-6.594	1.00100.07	C
ATOM	4426	CG	LEU	C	115	53.452	102.402	-5.645	1.00100.07	C
ATOM	4427	CD1	LEU	C	115	54.793	101.762	-5.993	1.00100.07	C
ATOM	4428	CD2	LEU	C	115	53.526	103.917	-5.746	1.00100.07	C
ATOM	4429	C	LEU	C	115	52.000	99.514	-5.964	1.00 99.90	C
ATOM	4430	O	LEU	C	115	51.373	98.468	-6.172	1.00 99.90	C
ATOM	4431	N	GLY	C	116	52.433	99.890	-4.765	1.00 61.19	C
ATOM	4432	CA	GLY	C	116	52.197	99.086	-3.590	1.00 61.19	C
ATOM	4433	C	GLY	C	116	50.750	98.997	-3.178	1.00 61.19	C
ATOM	4434	O	GLY	C	116	49.893	99.733	-3.664	1.00 61.19	C
ATOM	4435	N	HIS	C	117	50.490	98.067	-2.268	1.00 50.40	C
ATOM	4436	CA	HIS	C	117	49.157	97.833	-1.737	1.00 50.40	C
ATOM	4437	CB	HIS	C	117	48.960	96.340	-1.472	1.00 99.90	C
ATOM	4438	CG	HIS	C	117	48.949	95.495	-2.706	1.00 99.90	C
ATOM	4439	CD2	HIS	C	117	49.883	94.670	-3.234	1.00 99.90	C
ATOM	4440	ND1	HIS	C	117	47.847	95.402	-3.534	1.00 99.90	C
ATOM	4441	CE1	HIS	C	117	48.108	94.551	-4.514	1.00 99.90	C
ATOM	4442	NE2	HIS	C	117	49.336	94.096	-4.353	1.00 99.90	C
ATOM	4443	C	HIS	C	117	49.001	98.600	-0.418	1.00 50.40	C
ATOM	4444	O	HIS	C	117	49.831	98.475	0.482	1.00 50.40	C
ATOM	4445	N	LEU	C	118	47.932	99.383	-0.308	1.00 44.36	C
ATOM	4446	CA	LEU	C	118	47.687	100.162	0.898	1.00 44.36	C
ATOM	4447	CB	LEU	C	118	47.320	101.600	0.529	1.00100.07	C
ATOM	4448	CG	LEU	C	118	47.573	102.670	1.592	1.00100.07	C
ATOM	4449	CD1	LEU	C	118	46.828	103.957	1.238	1.00100.07	C
ATOM	4450	CD2	LEU	C	118	47.106	102.159	2.922	1.00100.07	C
ATOM	4451	C	LEU	C	118	46.537	99.527	1.659	1.00 44.36	C
ATOM	4452	O	LEU	C	118	45.391	99.674	1.260	1.00 44.36	C
ATOM	4453	N	PRO	C	119	46.836	98.832	2.771	1.00 33.57	C
ATOM	4454	CD	PRO	C	119	48.155	98.733	3.398	1.00100.07	C
ATOM	4455	CA	PRO	C	119	45.815	98.161	3.609	1.00 33.57	C
ATOM	4456	CB	PRO	C	119	46.560	97.900	4.925	1.00100.07	C
ATOM	4457	CG	PRO	C	119	47.805	98.748	4.853	1.00100.07	C
ATOM	4458	C	PRO	C	119	44.476	98.877	3.812	1.00 33.57	C
ATOM	4459	O	PRO	C	119	44.404	100.014	4.272	1.00 33.57	C
ATOM	4460	N	LEU	C	120	43.403	98.179	3.460	1.00 48.29	C
ATOM	4461	CA	LEU	C	120	42.067	98.726	3.572	1.00 48.29	C
ATOM	4462	CB	LEU	C	120	41.163	98.034	2.563	1.00100.07	C
ATOM	4463	CG	LEU	C	120	41.822	98.110	1.183	1.00100.07	C
ATOM	4464	CD1	LEU	C	120	41.022	97.315	0.181	1.00100.07	C
ATOM	4465	CD2	LEU	C	120	41.940	99.561	0.745	1.00100.07	C
ATOM	4466	C	LEU	C	120	41.599	98.497	4.980	1.00 48.29	C
ATOM	4467	O	LEU	C	120	42.148	97.645	5.672	1.00 48.29	C
ATOM	4468	N	MET	C	121	40.609	99.277	5.407	1.00 38.60	C
ATOM	4469	CA	MET	C	121	40.074	99.175	6.757	1.00 38.60	C
ATOM	4470	CB	MET	C	121	40.019	100.551	7.423	1.00 99.86	C
ATOM	4471	CG	MET	C	121	39.742	100.513	8.924	1.00 99.86	C
ATOM	4472	SD	MET	C	121	39.254	102.116	9.631	1.00 99.86	C
ATOM	4473	CE	MET	C	121	40.791	103.008	9.614	1.00 99.86	C
ATOM	4474	C	MET	C	121	38.681	98.605	6.675	1.00 38.60	C
ATOM	4475	O	MET	C	121	37.857	99.072	5.894	1.00 38.60	C
ATOM	4476	N	THR	C	122	38.418	97.582	7.475	1.00 51.97	C
ATOM	4477	CA	THR	C	122	37.107	96.977	7.472	1.00 51.97	C
ATOM	4478	CB	THR	C	122	37.073	95.780	8.410	1.00 98.89	C
ATOM	4479	OG1	THR	C	122	35.866	95.042	8.200	1.00 98.89	C
ATOM	4480	CG2	THR	C	122	37.143	96.235	9.844	1.00 98.89	C
ATOM	4481	C	THR	C	122	36.170	98.071	7.964	1.00 51.97	C
ATOM	4482	O	THR	C	122	36.554	99.232	7.991	1.00 51.97	C
ATOM	4483	N	GLU	C	123	34.952	97.722	8.359	1.00 43.02	C
ATOM	4484	CA	GLU	C	123	34.006	98.729	8.841	1.00 43.02	C
ATOM	4485	CB	GLU	C	123	32.602	98.148	8.913	1.00100.07	C
ATOM	4486	CG	GLU	C	123	32.119	97.584	7.611	1.00100.07	C
ATOM	4487	CD	GLU	C	123	32.953	96.407	7.159	1.00100.07	C
ATOM	4488	OE1	GLU	C	123	32.957	95.369	7.863	1.00100.07	C
ATOM	4489	OE2	GLU	C	123	33.613	96.528	6.107	1.00100.07	C
ATOM	4490	C	GLU	C	123	34.373	99.258	10.217	1.00 43.02	C
ATOM	4491	O	GLU	C	123	33.592	99.969	10.834	1.00 43.02	C
ATOM	4492	N	ASP	C	124	35.558	98.900	10.696	1.00100.07	C
ATOM	4493	CA	ASP	C	124	36.023	99.326	12.008	1.00100.07	C
ATOM	4494	CB	ASP	C	124	35.333	98.487	13.093	1.00100.07	C
ATOM	4495	CG	ASP	C	124	34.916	97.114	12.597	1.00100.07	C
ATOM	4496	OD1	ASP	C	124	34.106	97.044	11.650	1.00100.07	C
ATOM	4497	OD2	ASP	C	124	35.391	96.101	13.153	1.00100.07	C
ATOM	4498	C	ASP	C	124	37.553	99.255	12.164	1.00100.07	C

ATOM	4499	O	ASP	C	124	38.246	100.268	12.042	1.00100.07	C
ATOM	4500	N	GLY	C	125	38.082	98.064	12.434	1.00100.06	C
ATOM	4501	CA	GLY	C	125	39.519	97.916	12.599	1.00100.06	C
ATOM	4502	C	GLY	C	125	40.209	97.514	11.310	1.00100.06	C
ATOM	4503	O	GLY	C	125	39.708	97.784	10.221	1.00100.06	C
ATOM	4504	N	SER	C	126	41.356	96.856	11.426	1.00 42.10	C
ATOM	4505	CA	SER	C	126	42.125	96.434	10.255	1.00 42.10	C
ATOM	4506	CB	SER	C	126	43.470	97.167	10.226	1.00 16.52	C
ATOM	4507	OG	SER	C	126	43.449	98.352	9.437	1.00 16.52	C
ATOM	4508	C	SER	C	126	42.388	94.931	10.253	1.00 42.10	C
ATOM	4509	O	SER	C	126	43.047	94.420	11.157	1.00 42.10	C
ATOM	4510	N	PHE	C	127	41.875	94.232	9.237	1.00 43.59	C
ATOM	4511	CA	PHE	C	127	42.066	92.779	9.092	1.00 43.59	C
ATOM	4512	CB	PHE	C	127	40.895	92.134	8.329	1.00100.07	C
ATOM	4513	CG	PHE	C	127	39.595	92.076	9.114	1.00100.07	C
ATOM	4514	CD1	PHE	C	127	38.522	92.902	8.783	1.00100.07	C
ATOM	4515	CD2	PHE	C	127	39.441	91.192	10.184	1.00100.07	C
ATOM	4516	CE1	PHE	C	127	37.318	92.848	9.505	1.00100.07	C
ATOM	4517	CE2	PHE	C	127	38.241	91.134	10.912	1.00100.07	C
ATOM	4518	CZ	PHE	C	127	37.180	91.966	10.568	1.00100.07	C
ATOM	4519	C	PHE	C	127	43.355	92.557	8.316	1.00 43.59	C
ATOM	4520	O	PHE	C	127	43.393	91.799	7.353	1.00 43.59	C
ATOM	4521	N	ILE	C	128	44.392	93.262	8.765	1.00 62.47	C
ATOM	4522	CA	ILE	C	128	45.743	93.247	8.201	1.00 62.47	C
ATOM	4523	CB	ILE	C	128	46.441	94.595	8.432	1.00 99.55	C
ATOM	4524	CG2	ILE	C	128	47.326	94.931	7.244	1.00 99.55	C
ATOM	4525	CG1	ILE	C	128	45.398	95.688	8.677	1.00 99.55	C
ATOM	4526	CD	ILE	C	128	44.307	95.814	7.606	1.00100.07	C
ATOM	4527	C	ILE	C	128	46.592	92.172	8.866	1.00 62.47	C
ATOM	4528	O	ILE	C	128	46.199	91.618	9.889	1.00 62.47	C
ATOM	4529	N	ILE	C	129	47.767	91.903	8.307	1.00 40.50	C
ATOM	4530	CA	ILE	C	129	48.634	90.854	8.840	1.00 40.50	C
ATOM	4531	CB	ILE	C	129	48.634	90.807	10.375	1.00100.07	C
ATOM	4532	CG2	ILE	C	129	49.187	89.462	10.837	1.00100.07	C
ATOM	4533	CG1	ILE	C	129	49.425	91.975	10.955	1.00100.07	C
ATOM	4534	CD	ILE	C	129	50.894	91.681	11.206	1.00100.07	C
ATOM	4535	C	ILE	C	129	48.070	89.509	8.395	1.00 40.50	C
ATOM	4536	O	ILE	C	129	48.771	88.696	7.798	1.00 40.50	C
ATOM	4537	N	ASN	C	130	46.799	89.308	8.748	1.00 72.40	C
ATOM	4538	CA	ASN	C	130	45.993	88.123	8.471	1.00 72.40	C
ATOM	4539	CB	ASN	C	130	46.859	86.892	8.262	1.00100.07	C
ATOM	4540	CG	ASN	C	130	47.369	86.807	6.849	1.00100.07	C
ATOM	4541	OD1	ASN	C	130	46.818	87.438	5.951	1.00100.07	C
ATOM	4542	ND2	ASN	C	130	48.415	86.029	6.637	1.00100.07	C
ATOM	4543	C	ASN	C	130	45.013	87.900	9.614	1.00 72.40	C
ATOM	4544	O	ASN	C	130	43.972	87.265	9.446	1.00 72.40	C
ATOM	4545	N	GLY	C	131	45.363	88.429	10.780	1.00 86.95	C
ATOM	4546	CA	GLY	C	131	44.499	88.344	11.944	1.00 86.95	C
ATOM	4547	C	GLY	C	131	44.131	89.787	12.247	1.00 86.95	C
ATOM	4548	O	GLY	C	131	45.017	90.612	12.455	1.00 86.95	C
ATOM	4549	N	ALA	C	132	42.842	90.109	12.265	1.00 40.44	C
ATOM	4550	CA	ALA	C	132	42.398	91.483	12.511	1.00 40.44	C
ATOM	4551	CB	ALA	C	132	40.893	91.487	12.835	1.00 5.07	C
ATOM	4552	C	ALA	C	132	43.195	92.180	13.630	1.00 40.44	C
ATOM	4553	O	ALA	C	132	43.742	91.517	14.507	1.00 40.44	C
ATOM	4554	N	ASP	C	133	43.278	93.514	13.571	1.00 39.16	C
ATOM	4555	CA	ASP	C	133	43.986	94.315	14.583	1.00 39.16	C
ATOM	4556	CB	ASP	C	133	45.476	93.952	14.614	1.00100.07	C
ATOM	4557	CG	ASP	C	133	46.090	93.891	13.238	1.00100.07	C
ATOM	4558	OD1	ASP	C	133	45.994	94.891	12.496	1.00100.07	C
ATOM	4559	OD2	ASP	C	133	46.675	92.839	12.903	1.00100.07	C
ATOM	4560	C	ASP	C	133	43.825	95.842	14.446	1.00 39.16	C
ATOM	4561	O	ASP	C	133	43.762	96.367	13.334	1.00 39.16	C
ATOM	4562	N	ARG	C	134	43.753	96.531	15.593	1.00 19.49	C
ATOM	4563	CA	ARG	C	134	43.591	97.984	15.652	1.00 19.49	C
ATOM	4564	CB	ARG	C	134	42.913	98.402	16.961	1.00100.07	C
ATOM	4565	CG	ARG	C	134	41.449	97.991	17.112	1.00100.07	C
ATOM	4566	CD	ARG	C	134	40.466	98.872	16.307	1.00100.07	C
ATOM	4567	NE	ARG	C	134	39.064	98.581	16.647	1.00100.07	C
ATOM	4568	CZ	ARG	C	134	38.006	99.211	16.139	1.00100.07	C
ATOM	4569	NH1	ARG	C	134	38.173	100.181	15.253	1.00100.07	C
ATOM	4570	NH2	ARG	C	134	36.780	98.874	16.521	1.00100.07	C
ATOM	4571	C	ARG	C	134	44.929	98.702	15.544	1.00 19.49	C
ATOM	4572	O	ARG	C	134	45.983	98.084	15.692	1.00 19.49	C
ATOM	4573	N	VAL	C	135	44.872	100.014	15.307	1.00 40.37	C
ATOM	4574	CA	VAL	C	135	46.063	100.842	15.169	1.00 40.37	C
ATOM	4575	CB	VAL	C	135	45.918	101.800	13.997	1.00 49.11	C
ATOM	4576	CG1	VAL	C	135	47.062	101.588	13.020	1.00 49.11	C
ATOM	4577	CG2	VAL	C	135	44.587	101.577	13.319	1.00 49.11	C
ATOM	4578	C	VAL	C	135	46.395	101.645	16.430	1.00 40.37	C
ATOM	4579	O	VAL	C	135	47.556	101.738	16.821	1.00 40.37	C
ATOM	4580	N	ILE	C	136	45.385	102.236	17.059	1.00 46.74	C
ATOM	4581	CA	ILE	C	136	45.576	102.992	18.304	1.00 46.74	C
ATOM	4582	CB	ILE	C	136	46.534	102.285	19.265	1.00 33.21	C

ATOM	4583	CG2	ILE	C	136	46.542	103.009	20.579	1.00	33.21	C
ATOM	4584	CG1	ILE	C	136	46.118	100.835	19.448	1.00	33.21	C
ATOM	4585	CD	ILE	C	136	44.644	100.653	19.701	1.00	73.39	C
ATOM	4586	C	ILE	C	136	46.080	104.413	18.193	1.00	46.74	C
ATOM	4587	O	ILE	C	136	47.275	104.659	18.067	1.00	46.74	C
ATOM	4588	N	VAL	C	137	45.157	105.353	18.281	1.00	30.06	C
ATOM	4589	CA	VAL	C	137	45.500	106.753	18.203	1.00	30.06	C
ATOM	4590	CB	VAL	C	137	44.342	107.561	18.740	1.00	64.43	C
ATOM	4591	CG1	VAL	C	137	44.443	108.968	18.263	1.00	64.43	C
ATOM	4592	CG2	VAL	C	137	43.034	106.931	18.293	1.00	64.43	C
ATOM	4593	C	VAL	C	137	46.771	107.022	19.018	1.00	30.06	C
ATOM	4594	O	VAL	C	137	46.769	106.871	20.232	1.00	30.06	C
ATOM	4595	N	SER	C	138	47.841	107.431	18.336	1.00	32.80	C
ATOM	4596	CA	SER	C	138	49.162	107.692	18.946	1.00	32.80	C
ATOM	4597	CB	SER	C	138	50.210	108.075	17.891	1.00	91.01	C
ATOM	4598	OG	SER	C	138	51.464	108.350	18.526	1.00	91.01	C
ATOM	4599	C	SER	C	138	49.362	108.705	20.063	1.00	32.80	C
ATOM	4600	O	SER	C	138	49.628	109.872	19.793	1.00	32.80	C
ATOM	4601	N	GLN	C	139	49.276	108.247	21.307	1.00	52.72	C
ATOM	4602	CA	GLN	C	139	49.538	109.057	22.504	1.00	52.72	C
ATOM	4603	CB	GLN	C	139	50.884	108.618	23.049	1.00	81.44	C
ATOM	4604	CG	GLN	C	139	51.087	108.824	24.493	1.00	81.44	C
ATOM	4605	CD	GLN	C	139	52.080	107.836	25.010	1.00	81.44	C
ATOM	4606	OE1	GLN	C	139	53.249	107.855	24.633	1.00	81.44	C
ATOM	4607	NE2	GLN	C	139	51.616	106.933	25.849	1.00	81.44	C
ATOM	4608	C	GLN	C	139	49.552	110.582	22.381	1.00	52.72	C
ATOM	4609	O	GLN	C	139	48.756	111.267	23.031	1.00	52.72	C
ATOM	4610	N	ILE	C	140	50.524	111.076	21.602	1.00	61.34	C
ATOM	4611	CA	ILE	C	140	50.750	112.497	21.303	1.00	61.34	C
ATOM	4612	CB	ILE	C	140	49.900	113.403	22.199	1.00	66.08	C
ATOM	4613	CG2	ILE	C	140	50.546	114.766	22.332	1.00	66.08	C
ATOM	4614	CG1	ILE	C	140	48.496	113.506	21.617	1.00	66.08	C
ATOM	4615	CD	ILE	C	140	47.519	114.182	22.530	1.00	100.07	C
ATOM	4616	C	ILE	C	140	52.205	113.021	21.323	1.00	61.34	C
ATOM	4617	O	ILE	C	140	53.090	112.481	22.008	1.00	61.34	C
ATOM	4618	N	HIS	C	141	52.411	114.106	20.573	1.00	41.62	C
ATOM	4619	CA	HIS	C	141	53.707	114.758	20.410	1.00	41.62	C
ATOM	4620	CB	HIS	C	141	53.935	115.022	18.931	1.00	100.07	C
ATOM	4621	CG	HIS	C	141	52.958	114.314	18.057	1.00	100.07	C
ATOM	4622	CD2	HIS	C	141	51.763	114.699	17.555	1.00	100.07	C
ATOM	4623	ND1	HIS	C	141	53.115	112.992	17.700	1.00	100.07	C
ATOM	4624	CE1	HIS	C	141	52.052	112.595	17.019	1.00	100.07	C
ATOM	4625	NE2	HIS	C	141	51.218	113.615	16.920	1.00	100.07	C
ATOM	4626	C	HIS	C	141	53.739	116.083	21.126	1.00	41.62	C
ATOM	4627	O	HIS	C	141	54.450	116.995	20.709	1.00	41.62	C
ATOM	4628	N	ARG	C	142	52.959	116.202	22.189	1.00	38.29	C
ATOM	4629	CA	ARG	C	142	52.895	117.457	22.929	1.00	38.29	C
ATOM	4630	CB	ARG	C	142	54.275	117.834	23.503	1.00	51.20	C
ATOM	4631	CG	ARG	C	142	54.308	119.222	24.142	1.00	51.20	C
ATOM	4632	CD	ARG	C	142	55.067	119.258	25.457	1.00	51.20	C
ATOM	4633	NE	ARG	C	142	56.399	119.819	25.309	1.00	51.20	C
ATOM	4634	CZ	ARG	C	142	57.359	119.264	24.583	1.00	51.20	C
ATOM	4635	NH1	ARG	C	142	57.125	118.128	23.940	1.00	51.20	C
ATOM	4636	NH2	ARG	C	142	58.552	119.844	24.501	1.00	51.20	C
ATOM	4637	C	ARG	C	142	52.370	118.601	22.048	1.00	38.29	C
ATOM	4638	O	ARG	C	142	52.106	119.689	22.561	1.00	38.29	C
ATOM	4639	N	SER	C	143	52.233	118.346	20.736	1.00	13.32	C
ATOM	4640	CA	SER	C	143	51.724	119.314	19.744	1.00	13.32	C
ATOM	4641	CB	SER	C	143	50.630	120.195	20.356	1.00	74.48	C
ATOM	4642	OG	SER	C	143	50.188	121.169	19.431	1.00	74.48	C
ATOM	4643	C	SER	C	143	52.803	120.186	19.133	1.00	13.32	C
ATOM	4644	O	SER	C	143	53.581	120.798	19.844	1.00	13.32	C
ATOM	4645	N	PRO	C	144	52.833	120.286	17.798	1.00	33.41	C
ATOM	4646	CD	PRO	C	144	51.686	119.989	16.927	1.00	47.73	C
ATOM	4647	CA	PRO	C	144	53.826	121.084	17.070	1.00	33.41	C
ATOM	4648	CB	PRO	C	144	53.307	121.048	15.637	1.00	47.73	C
ATOM	4649	CG	PRO	C	144	51.838	121.029	15.834	1.00	47.73	C
ATOM	4650	C	PRO	C	144	54.038	122.514	17.569	1.00	33.41	C
ATOM	4651	O	PRO	C	144	53.157	123.103	18.210	1.00	33.41	C
ATOM	4652	N	GLY	C	145	55.225	123.057	17.286	1.00	44.08	C
ATOM	4653	CA	GLY	C	145	55.528	124.422	17.690	1.00	44.08	C
ATOM	4654	C	GLY	C	145	56.897	124.751	18.269	1.00	44.08	C
ATOM	4655	O	GLY	C	145	57.934	124.315	17.770	1.00	44.08	C
ATOM	4656	N	VAL	C	146	56.873	125.555	19.331	1.00	43.75	C
ATOM	4657	CA	VAL	C	146	58.064	126.017	20.054	1.00	43.75	C
ATOM	4658	CB	VAL	C	146	58.742	127.196	19.320	1.00	46.92	C
ATOM	4659	CG1	VAL	C	146	59.609	127.995	20.293	1.00	46.92	C
ATOM	4660	CG2	VAL	C	146	59.576	126.669	18.152	1.00	46.92	C
ATOM	4661	C	VAL	C	146	57.581	126.512	21.416	1.00	43.75	C
ATOM	4662	O	VAL	C	146	56.627	127.296	21.470	1.00	43.75	C
ATOM	4663	N	TYR	C	147	58.212	126.071	22.510	1.00	41.76	C
ATOM	4664	CA	TYR	C	147	57.755	126.524	23.821	1.00	41.76	C
ATOM	4665	CB	TYR	C	147	56.340	125.986	24.091	1.00	49.74	C
ATOM	4666	CG	TYR	C	147	56.027	124.619	23.509	1.00	49.74	C

ATOM	4667	CD1	TYR	C	147	56.758	123.497	23.888	1.00	49.74	C
ATOM	4668	CE1	TYR	C	147	56.441	122.235	23.398	1.00	49.74	C
ATOM	4669	CD2	TYR	C	147	54.965	124.444	22.610	1.00	49.74	C
ATOM	4670	CE2	TYR	C	147	54.644	123.188	22.114	1.00	49.74	C
ATOM	4671	CZ	TYR	C	147	55.387	122.085	22.515	1.00	49.74	C
ATOM	4672	OH	TYR	C	147	55.092	120.822	22.055	1.00	49.74	C
ATOM	4673	C	TYR	C	147	58.590	126.375	25.088	1.00	41.76	C
ATOM	4674	O	TYR	C	147	58.032	126.250	26.177	1.00	41.76	C
ATOM	4675	N	PHE	C	148	59.912	126.413	24.959	1.00	100.02	C
ATOM	4676	CA	PHE	C	148	60.814	126.367	26.119	1.00	100.02	C
ATOM	4677	CB	PHE	C	148	60.589	127.621	26.972	1.00	35.32	C
ATOM	4678	CG	PHE	C	148	60.547	128.865	26.161	1.00	35.32	C
ATOM	4679	CD1	PHE	C	148	59.437	129.150	25.366	1.00	35.32	C
ATOM	4680	CD2	PHE	C	148	61.663	129.676	26.064	1.00	35.32	C
ATOM	4681	CE1	PHE	C	148	59.440	130.200	24.478	1.00	35.32	C
ATOM	4682	CE2	PHE	C	148	61.678	130.737	25.172	1.00	35.32	C
ATOM	4683	CZ	PHE	C	148	60.558	130.994	24.377	1.00	35.32	C
ATOM	4684	O	PHE	C	148	60.800	125.145	27.021	1.00	100.02	C
ATOM	4685	O	PHE	C	148	60.861	124.012	26.539	1.00	100.02	C
ATOM	4686	N	THR	C	149	60.739	125.410	28.330	1.00	52.16	C
ATOM	4687	CA	THR	C	149	60.737	124.404	29.398	1.00	52.16	C
ATOM	4688	CB	THR	C	149	60.741	122.966	28.849	1.00	100.07	C
ATOM	4689	OG1	THR	C	149	59.541	122.732	28.104	1.00	100.07	C
ATOM	4690	CG2	THR	C	149	60.854	121.961	29.984	1.00	100.07	C
ATOM	4691	C	THR	C	149	62.017	124.567	30.215	1.00	52.16	C
ATOM	4692	O	THR	C	149	63.101	124.674	29.643	1.00	52.16	C
ATOM	4693	N	PRO	C	150	61.913	124.600	31.556	1.00	47.65	C
ATOM	4694	CD	PRO	C	150	60.678	124.839	32.314	1.00	61.69	C
ATOM	4695	CA	PRO	C	150	63.084	124.745	32.436	1.00	47.65	C
ATOM	4696	CB	PRO	C	150	62.465	124.908	33.829	1.00	61.69	C
ATOM	4697	CG	PRO	C	150	61.081	124.376	33.679	1.00	61.69	C
ATOM	4698	C	PRO	C	150	64.140	123.631	32.380	1.00	47.65	C
ATOM	4699	O	PRO	C	150	63.826	122.444	32.362	1.00	47.65	C
ATOM	4700	N	ASP	C	151	65.401	124.055	32.352	1.00	78.09	C
ATOM	4701	CA	ASP	C	151	66.547	123.158	32.275	1.00	78.09	C
ATOM	4702	CB	ASP	C	151	67.816	123.960	31.947	1.00	82.31	C
ATOM	4703	CG	ASP	C	151	69.004	123.072	31.597	1.00	82.31	C
ATOM	4704	OD1	ASP	C	151	69.257	122.103	32.341	1.00	82.31	C
ATOM	4705	OD2	ASP	C	151	69.693	123.349	30.586	1.00	82.31	C
ATOM	4706	C	ASP	C	151	66.733	122.438	33.596	1.00	78.09	C
ATOM	4707	O	ASP	C	151	67.020	123.066	34.613	1.00	78.09	C
ATOM	4708	N	PRO	C	152	66.580	121.105	33.596	1.00	100.07	C
ATOM	4709	CD	PRO	C	152	66.281	120.281	32.410	1.00	100.07	C
ATOM	4710	CA	PRO	C	152	66.728	120.264	34.791	1.00	100.07	C
ATOM	4711	CB	PRO	C	152	66.297	118.887	34.293	1.00	100.07	C
ATOM	4712	CG	PRO	C	152	66.732	118.906	32.851	1.00	100.07	C
ATOM	4713	C	PRO	C	152	68.149	120.259	35.364	1.00	100.07	C
ATOM	4714	O	PRO	C	152	68.400	119.688	36.430	1.00	100.07	C
ATOM	4715	N	ALA	C	153	69.074	120.890	34.645	1.00	77.78	C
ATOM	4716	CA	ALA	C	153	70.463	120.983	35.083	1.00	77.78	C
ATOM	4717	CB	ALA	C	153	71.398	120.750	33.910	1.00	75.78	C
ATOM	4718	C	ALA	C	153	70.679	122.378	35.662	1.00	77.78	C
ATOM	4719	O	ALA	C	153	71.014	123.314	34.930	1.00	77.78	C
ATOM	4720	N	ARG	C	154	70.494	122.495	36.979	1.00	94.66	C
ATOM	4721	CA	ARG	C	154	70.616	123.764	37.695	1.00	94.66	C
ATOM	4722	CB	ARG	C	154	72.080	124.201	37.803	1.00	100.07	C
ATOM	4723	CG	ARG	C	154	72.969	123.242	38.612	1.00	100.07	C
ATOM	4724	CD	ARG	C	154	73.766	123.969	39.701	1.00	100.07	C
ATOM	4725	NE	ARG	C	154	72.902	124.445	40.786	1.00	100.07	C
ATOM	4726	CZ	ARG	C	154	73.318	125.157	41.832	1.00	100.07	C
ATOM	4727	NH1	ARG	C	154	74.599	125.493	41.949	1.00	100.07	C
ATOM	4728	NH2	ARG	C	154	72.451	125.529	42.768	1.00	100.07	C
ATOM	4729	C	ARG	C	154	69.790	124.800	36.941	1.00	94.66	C
ATOM	4730	O	ARG	C	154	70.141	125.210	35.839	1.00	94.66	C
ATOM	4731	N	PRO	C	155	68.676	125.237	37.539	1.00	99.90	C
ATOM	4732	CD	PRO	C	155	68.500	125.126	39.000	1.00	66.32	C
ATOM	4733	CA	PRO	C	155	67.739	126.218	36.982	1.00	99.90	C
ATOM	4734	CB	PRO	C	155	67.365	127.035	38.208	1.00	66.32	C
ATOM	4735	CG	PRO	C	155	67.258	125.954	39.252	1.00	66.32	C
ATOM	4736	C	PRO	C	155	68.239	127.073	35.802	1.00	99.90	C
ATOM	4737	O	PRO	C	155	68.902	128.094	35.995	1.00	99.90	C
ATOM	4738	N	GLY	C	156	67.900	126.653	34.581	1.00	82.77	C
ATOM	4739	CA	GLY	C	156	68.337	127.381	33.401	1.00	82.77	C
ATOM	4740	C	GLY	C	156	67.451	127.278	32.168	1.00	82.77	C
ATOM	4741	O	GLY	C	156	67.945	127.289	31.036	1.00	82.77	C
ATOM	4742	N	ARG	C	157	66.145	127.181	32.383	1.00	100.07	C
ATOM	4743	CA	ARG	C	157	65.163	127.100	31.298	1.00	100.07	C
ATOM	4744	CB	ARG	C	157	64.694	128.495	30.913	1.00	63.00	C
ATOM	4745	CG	ARG	C	157	64.524	129.435	32.075	1.00	63.00	C
ATOM	4746	CD	ARG	C	157	64.051	128.739	33.335	1.00	63.00	C
ATOM	4747	NE	ARG	C	157	63.404	129.700	34.216	1.00	63.00	C
ATOM	4748	CZ	ARG	C	157	63.177	129.511	35.511	1.00	63.00	C
ATOM	4749	NH1	ARG	C	157	63.552	128.380	36.108	1.00	63.00	C
ATOM	4750	NH2	ARG	C	157	62.560	130.463	36.207	1.00	63.00	C

ATOM	4751	C	ARG	C	157	65.592	126.380	30.022	1.00100.07	C
ATOM	4752	O	ARG	C	157	65.856	125.179	30.038	1.00100.07	C
ATOM	4753	N	TYR	C	158	65.629	127.133	28.922	1.00 80.15	C
ATOM	4754	CA	TYR	C	158	65.999	126.639	27.587	1.00 80.15	C
ATOM	4755	CB	TYR	C	158	66.807	125.340	27.661	1.00100.07	C
ATOM	4756	CG	TYR	C	158	66.052	124.174	27.103	1.00100.07	C
ATOM	4757	CD1	TYR	C	158	65.109	123.493	27.870	1.00100.07	C
ATOM	4758	CE1	TYR	C	158	64.327	122.479	27.320	1.00100.07	C
ATOM	4759	CD2	TYR	C	158	66.207	123.814	25.772	1.00100.07	C
ATOM	4760	CE2	TYR	C	158	65.435	122.807	25.205	1.00100.07	C
ATOM	4761	CZ	TYR	C	158	64.493	122.139	25.978	1.00100.07	C
ATOM	4762	OH	TYR	C	158	63.718	121.148	25.394	1.00100.07	C
ATOM	4763	C	TYR	C	158	64.755	126.407	26.723	1.00 80.15	C
ATOM	4764	O	TYR	C	158	63.676	126.098	27.232	1.00 80.15	C
ATOM	4765	N	ILE	C	159	64.925	126.514	25.409	1.00 23.07	C
ATOM	4766	CA	ILE	C	159	63.802	126.366	24.494	1.00 23.07	C
ATOM	4767	CB	ILE	C	159	63.603	127.614	23.606	1.00100.07	C
ATOM	4768	CG2	ILE	C	159	62.118	127.883	23.421	1.00100.07	C
ATOM	4769	CG1	ILE	C	159	64.308	128.822	24.212	1.00100.07	C
ATOM	4770	CD	ILE	C	159	65.809	128.767	24.080	1.00100.07	C
ATOM	4771	C	ILE	C	159	63.843	125.195	23.542	1.00 23.07	C
ATOM	4772	O	ILE	C	159	64.884	124.840	22.983	1.00 23.07	C
ATOM	4773	N	ALA	C	160	62.662	124.631	23.339	1.00 47.25	C
ATOM	4774	CA	ALA	C	160	62.475	123.511	22.446	1.00 47.25	C
ATOM	4775	CB	ALA	C	160	61.698	122.408	23.175	1.00 16.84	C
ATOM	4776	C	ALA	C	160	61.713	123.998	21.204	1.00 47.25	C
ATOM	4777	O	ALA	C	160	60.667	124.642	21.320	1.00 47.25	C
ATOM	4778	N	SER	C	161	62.257	123.725	20.022	1.00 99.36	C
ATOM	4779	CA	SER	C	161	61.606	124.115	18.772	1.00 99.36	C
ATOM	4780	CB	SER	C	161	62.640	124.628	17.753	1.00 42.46	C
ATOM	4781	OG	SER	C	161	62.631	126.046	17.644	1.00 42.46	C
ATOM	4782	C	SER	C	161	60.904	122.873	18.228	1.00 99.36	C
ATOM	4783	O	SER	C	161	61.546	121.999	17.638	1.00 99.36	C
ATOM	4784	N	ILE	C	162	59.591	122.794	18.436	1.00100.02	C
ATOM	4785	CA	ILE	C	162	58.806	121.647	17.984	1.00100.02	C
ATOM	4786	CB	ILE	C	162	57.395	121.632	18.588	1.00100.07	C
ATOM	4787	CG2	ILE	C	162	56.686	120.346	18.211	1.00100.07	C
ATOM	4788	CG1	ILE	C	162	57.472	121.682	20.110	1.00100.07	C
ATOM	4789	CD	ILE	C	162	58.042	122.957	20.665	1.00100.07	C
ATOM	4790	C	ILE	C	162	58.672	121.582	16.484	1.00100.02	C
ATOM	4791	O	ILE	C	162	59.157	122.455	15.774	1.00100.02	C
ATOM	4792	N	ILE	C	163	58.002	120.546	15.998	1.00 27.30	C
ATOM	4793	CA	ILE	C	163	57.839	120.380	14.571	1.00 27.30	C
ATOM	4794	CB	ILE	C	163	58.935	119.477	14.050	1.00 37.66	C
ATOM	4795	CG2	ILE	C	163	58.549	118.894	12.717	1.00 37.66	C
ATOM	4796	CG1	ILE	C	163	60.237	120.269	13.991	1.00 37.66	C
ATOM	4797	CD	ILE	C	163	60.127	121.562	13.217	1.00 37.66	C
ATOM	4798	C	ILE	C	163	56.486	119.803	14.208	1.00 27.30	C
ATOM	4799	O	ILE	C	163	55.944	118.980	14.948	1.00 27.30	C
ATOM	4800	N	PRO	C	164	55.921	120.222	13.055	1.00100.07	C
ATOM	4801	CD	PRO	C	164	56.538	121.109	12.051	1.00 96.76	C
ATOM	4802	CA	PRO	C	164	54.614	119.749	12.576	1.00100.07	C
ATOM	4803	CB	PRO	C	164	54.589	120.207	11.107	1.00 96.76	C
ATOM	4804	CG	PRO	C	164	56.036	120.516	10.768	1.00 96.76	C
ATOM	4805	C	PRO	C	164	54.360	118.244	12.722	1.00100.07	C
ATOM	4806	O	PRO	C	164	53.236	117.772	12.520	1.00100.07	C
ATOM	4807	N	LEU	C	165	55.406	117.507	13.083	1.00 69.74	C
ATOM	4808	CA	LEU	C	165	55.330	116.062	13.255	1.00 69.74	C
ATOM	4809	CB	LEU	C	165	54.893	115.414	11.943	1.00100.07	C
ATOM	4810	CG	LEU	C	165	54.813	113.890	11.877	1.00100.07	C
ATOM	4811	CD1	LEU	C	165	53.422	113.447	12.315	1.00100.07	C
ATOM	4812	CD2	LEU	C	165	55.111	113.420	10.459	1.00100.07	C
ATOM	4813	C	LEU	C	165	56.727	115.576	13.600	1.00 69.74	C
ATOM	4814	O	LEU	C	165	57.701	116.279	13.357	1.00 69.74	C
ATOM	4815	N	PRO	C	166	56.850	114.379	14.192	1.00 90.60	C
ATOM	4816	CD	PRO	C	166	55.844	113.495	14.807	1.00 49.54	C
ATOM	4817	CA	PRO	C	166	58.208	113.925	14.504	1.00 90.60	C
ATOM	4818	CB	PRO	C	166	57.969	112.786	15.505	1.00 49.54	C
ATOM	4819	CG	PRO	C	166	56.647	112.240	15.083	1.00 49.54	C
ATOM	4820	C	PRO	C	166	58.918	113.481	13.206	1.00 90.60	C
ATOM	4821	O	PRO	C	166	60.122	113.209	13.192	1.00 90.60	C
ATOM	4822	N	LYS	C	167	58.151	113.430	12.116	1.00100.01	C
ATOM	4823	CA	LYS	C	167	58.668	113.048	10.800	1.00100.01	C
ATOM	4824	CB	LYS	C	167	58.156	111.655	10.396	1.00100.07	C
ATOM	4825	CG	LYS	C	167	58.679	110.494	11.256	1.00100.07	C
ATOM	4826	CD	LYS	C	167	58.161	109.131	10.759	1.00100.07	C
ATOM	4827	CE	LYS	C	167	58.618	107.963	11.653	1.00100.07	C
ATOM	4828	NZ	LYS	C	167	58.148	106.610	11.188	1.00100.07	C
ATOM	4829	C	LYS	C	167	58.235	114.083	9.755	1.00100.01	C
ATOM	4830	O	LYS	C	167	57.872	113.739	8.627	1.00100.01	C
ATOM	4831	N	ARG	C	168	58.276	115.354	10.146	1.00 64.31	C
ATOM	4832	CA	ARG	C	168	57.900	116.453	9.263	1.00 64.31	C
ATOM	4833	CB	ARG	C	168	56.396	116.704	9.374	1.00 77.54	C
ATOM	4834	CG	ARG	C	168	55.723	117.009	8.053	1.00 77.54	C

ATOM	4835	CD	ARG	C	168	56.177	118.346	7.512	1.00	77.54	C
ATOM	4836	NE	ARG	C	168	55.819	118.499	6.109	1.00	77.54	C
ATOM	4837	CZ	ARG	C	168	56.249	117.690	5.147	1.00	77.54	C
ATOM	4838	NH1	ARG	C	168	57.049	116.673	5.444	1.00	77.54	C
ATOM	4839	NH2	ARG	C	168	55.885	117.898	3.888	1.00	77.54	C
ATOM	4840	C	ARG	C	168	58.691	117.720	9.630	1.00	64.31	C
ATOM	4841	O	ARG	C	168	58.182	118.842	9.536	1.00	64.31	C
ATOM	4842	N	GLY	C	169	59.943	117.516	10.042	1.00	72.47	C
ATOM	4843	CA	GLY	C	169	60.812	118.617	10.429	1.00	72.47	C
ATOM	4844	C	GLY	C	169	61.723	118.316	11.617	1.00	72.47	C
ATOM	4845	O	GLY	C	169	61.381	117.508	12.482	1.00	72.47	C
ATOM	4846	N	PRO	C	170	62.898	118.961	11.694	1.00	89.12	C
ATOM	4847	CD	PRO	C	170	63.498	119.758	10.609	1.00	100.07	C
ATOM	4848	CA	PRO	C	170	63.861	118.759	12.784	1.00	89.12	C
ATOM	4849	CB	PRO	C	170	65.157	119.298	12.193	1.00	100.07	C
ATOM	4850	CG	PRO	C	170	64.676	120.391	11.299	1.00	100.07	C
ATOM	4851	C	PRO	C	170	63.543	119.380	14.155	1.00	89.12	C
ATOM	4852	O	PRO	C	170	63.020	120.494	14.262	1.00	89.12	C
ATOM	4853	N	TRP	C	171	63.898	118.625	15.191	1.00	65.36	C
ATOM	4854	CA	TRP	C	171	63.716	118.969	16.607	1.00	65.36	C
ATOM	4855	CB	TRP	C	171	63.716	117.648	17.400	1.00	59.97	C
ATOM	4856	CG	TRP	C	171	63.110	117.578	18.806	1.00	59.97	C
ATOM	4857	CD2	TRP	C	171	61.945	118.255	19.311	1.00	59.97	C
ATOM	4858	CE2	TRP	C	171	61.694	117.749	20.606	1.00	59.97	C
ATOM	4859	CE3	TRP	C	171	61.082	119.228	18.794	1.00	59.97	C
ATOM	4860	CD1	TRP	C	171	63.505	116.725	19.804	1.00	59.97	C
ATOM	4861	NE1	TRP	C	171	62.662	116.820	20.881	1.00	59.97	C
ATOM	4862	CZ2	TRP	C	171	60.625	118.188	21.391	1.00	59.97	C
ATOM	4863	CZ3	TRP	C	171	60.020	119.658	19.581	1.00	59.97	C
ATOM	4864	CH2	TRP	C	171	59.801	119.138	20.858	1.00	59.97	C
ATOM	4865	C	TRP	C	171	64.931	119.822	17.005	1.00	65.36	C
ATOM	4866	O	TRP	C	171	66.047	119.310	17.078	1.00	65.36	C
ATOM	4867	N	ILE	C	172	64.730	121.116	17.236	1.00	75.20	C
ATOM	4868	CA	ILE	C	172	65.842	121.984	17.626	1.00	75.20	C
ATOM	4869	CB	ILE	C	172	65.914	123.297	16.774	1.00	49.67	C
ATOM	4870	CG2	ILE	C	172	66.771	124.342	17.478	1.00	49.67	C
ATOM	4871	CG1	ILE	C	172	66.553	123.049	15.411	1.00	49.67	C
ATOM	4872	CD	ILE	C	172	66.740	124.339	14.603	1.00	49.67	C
ATOM	4873	C	ILE	C	172	65.686	122.412	19.076	1.00	75.20	C
ATOM	4874	O	ILE	C	172	64.570	122.463	19.596	1.00	75.20	C
ATOM	4875	N	ASP	C	173	66.812	122.717	19.723	1.00	45.64	C
ATOM	4876	CA	ASP	C	173	66.807	123.196	21.100	1.00	45.64	C
ATOM	4877	CB	ASP	C	173	66.997	122.054	22.091	1.00	58.55	C
ATOM	4878	CG	ASP	C	173	65.687	121.431	22.510	1.00	58.55	C
ATOM	4879	OD1	ASP	C	173	64.666	122.142	22.491	1.00	58.55	C
ATOM	4880	OD2	ASP	C	173	65.675	120.239	22.877	1.00	58.55	C
ATOM	4881	C	ASP	C	173	67.866	124.255	21.360	1.00	45.64	C
ATOM	4882	O	ASP	C	173	69.064	123.955	21.365	1.00	45.64	C
ATOM	4883	N	LEU	C	174	67.412	125.498	21.535	1.00	26.43	C
ATOM	4884	CA	LEU	C	174	68.296	126.612	21.859	1.00	26.43	C
ATOM	4885	CB	LEU	C	174	67.575	127.939	21.695	1.00	44.43	C
ATOM	4886	CG	LEU	C	174	66.944	128.213	20.335	1.00	44.43	C
ATOM	4887	CD1	LEU	C	174	65.633	128.952	20.541	1.00	44.43	C
ATOM	4888	CD2	LEU	C	174	67.901	129.010	19.456	1.00	44.43	C
ATOM	4889	C	LEU	C	174	68.476	126.309	23.331	1.00	26.43	C
ATOM	4890	O	LEU	C	174	67.490	126.161	24.060	1.00	26.43	C
ATOM	4891	N	GLU	C	175	69.718	126.215	23.780	1.00	54.85	C
ATOM	4892	CA	GLU	C	175	69.955	125.839	25.163	1.00	54.85	C
ATOM	4893	CB	GLU	C	175	70.220	124.337	25.181	1.00	100.07	C
ATOM	4894	CG	GLU	C	175	70.503	123.710	26.510	1.00	100.07	C
ATOM	4895	CD	GLU	C	175	70.747	122.223	26.358	1.00	100.07	C
ATOM	4896	OE1	GLU	C	175	71.643	121.857	25.568	1.00	100.07	C
ATOM	4897	OE2	GLU	C	175	70.046	121.423	27.015	1.00	100.07	C
ATOM	4898	C	GLU	C	175	71.100	126.593	25.818	1.00	54.85	C
ATOM	4899	O	GLU	C	175	72.247	126.151	25.753	1.00	54.85	C
ATOM	4900	N	VAL	C	176	70.784	127.722	26.455	1.00	99.89	C
ATOM	4901	CA	VAL	C	176	71.799	128.533	27.126	1.00	99.89	C
ATOM	4902	CB	VAL	C	176	71.243	129.893	27.605	1.00	100.07	C
ATOM	4903	CG1	VAL	C	176	72.351	130.689	28.289	1.00	100.07	C
ATOM	4904	CG2	VAL	C	176	70.695	130.680	26.428	1.00	100.07	C
ATOM	4905	C	VAL	C	176	72.341	127.791	28.335	1.00	99.89	C
ATOM	4906	O	VAL	C	176	71.575	127.336	29.186	1.00	99.89	C
ATOM	4907	N	GLU	C	177	73.667	127.683	28.396	1.00	99.82	C
ATOM	4908	CA	GLU	C	177	74.368	126.985	29.469	1.00	99.82	C
ATOM	4909	CB	GLU	C	177	75.119	125.780	28.892	1.00	87.63	C
ATOM	4910	CG	GLU	C	177	76.130	126.137	27.801	1.00	87.63	C
ATOM	4911	CD	GLU	C	177	76.448	124.968	26.882	1.00	87.63	C
ATOM	4912	OE1	GLU	C	177	75.514	124.469	26.217	1.00	87.63	C
ATOM	4913	OE2	GLU	C	177	77.625	124.548	26.822	1.00	87.63	C
ATOM	4914	C	GLU	C	177	75.353	127.930	30.136	1.00	99.82	C
ATOM	4915	O	GLU	C	177	75.239	129.148	30.001	1.00	99.82	C
ATOM	4916	N	ALA	C	178	76.319	127.366	30.855	1.00	74.18	C
ATOM	4917	CA	ALA	C	178	77.328	128.176	31.530	1.00	74.18	C
ATOM	4918	CB	ALA	C	178	77.666	127.569	32.909	1.00	22.45	C

ATOM	4919	C	ALA	C	178	78.579	128.251	30.656	1.00	74.18	C
ATOM	4920	O	ALA	C	178	78.916	129.309	30.115	1.00	74.18	C
ATOM	4921	N	SER	C	179	79.250	127.113	30.508	1.00	60.33	C
ATOM	4922	CA	SER	C	179	80.469	127.036	29.717	1.00	60.33	C
ATOM	4923	CB	SER	C	179	81.451	126.053	30.375	1.00	64.32	C
ATOM	4924	OG	SER	C	179	80.799	124.875	30.810	1.00	64.32	C
ATOM	4925	C	SER	C	179	80.212	126.651	28.261	1.00	60.33	C
ATOM	4926	O	SER	C	179	80.744	125.657	27.756	1.00	60.33	C
ATOM	4927	N	GLY	C	180	79.395	127.463	27.594	1.00	100.07	C
ATOM	4928	CA	GLY	C	180	79.049	127.242	26.197	1.00	100.07	C
ATOM	4929	C	GLY	C	180	78.168	128.387	25.721	1.00	100.07	C
ATOM	4930	O	GLY	C	180	78.378	128.961	24.652	1.00	100.07	C
ATOM	4931	N	VAL	C	181	77.180	128.722	26.546	1.00	88.90	C
ATOM	4932	CA	VAL	C	181	76.236	129.803	26.283	1.00	88.90	C
ATOM	4933	CB	VAL	C	181	76.915	131.185	26.413	1.00	94.12	C
ATOM	4934	CG1	VAL	C	181	75.873	132.285	26.277	1.00	94.12	C
ATOM	4935	CG2	VAL	C	181	77.626	131.293	27.758	1.00	94.12	C
ATOM	4936	C	VAL	C	181	75.552	129.722	24.927	1.00	88.90	C
ATOM	4937	O	VAL	C	181	76.198	129.610	23.892	1.00	88.90	C
ATOM	4938	N	VAL	C	182	74.227	129.775	24.960	1.00	41.38	C
ATOM	4939	CA	VAL	C	182	73.406	129.729	23.766	1.00	41.38	C
ATOM	4940	CB	VAL	C	182	73.349	131.117	23.122	1.00	48.32	C
ATOM	4941	CG1	VAL	C	182	72.150	131.204	22.205	1.00	48.32	C
ATOM	4942	CG2	VAL	C	182	73.280	132.187	24.201	1.00	48.32	C
ATOM	4943	C	VAL	C	182	73.883	128.700	22.728	1.00	41.38	C
ATOM	4944	O	VAL	C	182	74.699	129.007	21.846	1.00	41.38	C
ATOM	4945	N	THR	C	183	73.349	127.481	22.838	1.00	81.84	C
ATOM	4946	CA	THR	C	183	73.685	126.370	21.943	1.00	81.84	C
ATOM	4947	CB	THR	C	183	74.093	125.113	22.722	1.00	64.23	C
ATOM	4948	OG1	THR	C	183	75.115	125.435	23.673	1.00	64.23	C
ATOM	4949	CG2	THR	C	183	74.606	124.059	21.767	1.00	64.23	C
ATOM	4950	C	THR	C	183	72.498	125.969	21.081	1.00	81.84	C
ATOM	4951	O	THR	C	183	71.344	126.077	21.499	1.00	81.84	C
ATOM	4952	N	MET	C	184	72.792	125.482	19.881	1.00	87.56	C
ATOM	4953	CA	MET	C	184	71.755	125.051	18.952	1.00	87.56	C
ATOM	4954	CB	MET	C	184	71.859	125.831	17.641	1.00	35.60	C
ATOM	4955	CG	MET	C	184	70.544	126.411	17.140	1.00	35.60	C
ATOM	4956	SD	MET	C	184	69.546	125.324	16.116	1.00	35.60	C
ATOM	4957	CE	MET	C	184	69.895	125.965	14.526	1.00	35.60	C
ATOM	4958	C	MET	C	184	71.959	123.580	18.666	1.00	87.56	C
ATOM	4959	O	MET	C	184	72.660	123.227	17.721	1.00	87.56	C
ATOM	4960	N	LYS	C	185	71.369	122.717	19.487	1.00	47.66	C
ATOM	4961	CA	LYS	C	185	71.514	121.284	19.259	1.00	47.66	C
ATOM	4962	CB	LYS	C	185	71.545	120.525	20.587	1.00	100.07	C
ATOM	4963	CG	LYS	C	185	70.406	120.864	21.522	1.00	100.07	C
ATOM	4964	CD	LYS	C	185	70.432	119.985	22.768	1.00	100.07	C
ATOM	4965	CE	LYS	C	185	69.298	120.357	23.729	1.00	100.07	C
ATOM	4966	NZ	LYS	C	185	69.183	119.465	24.924	1.00	100.07	C
ATOM	4967	C	LYS	C	185	70.350	120.800	18.409	1.00	47.66	C
ATOM	4968	O	LYS	C	185	69.194	121.048	18.752	1.00	47.66	C
ATOM	4969	N	VAL	C	186	70.651	120.144	17.286	1.00	53.45	C
ATOM	4970	CA	VAL	C	186	69.598	119.631	16.412	1.00	53.45	C
ATOM	4971	CB	VAL	C	186	69.804	120.007	14.934	1.00	38.28	C
ATOM	4972	CG1	VAL	C	186	68.477	119.930	14.209	1.00	38.28	C
ATOM	4973	CG2	VAL	C	186	70.390	121.384	14.806	1.00	38.28	C
ATOM	4974	C	VAL	C	186	69.624	118.119	16.505	1.00	53.45	C
ATOM	4975	O	VAL	C	186	69.587	117.558	17.604	1.00	53.45	C
ATOM	4976	N	ASN	C	187	69.688	117.457	15.354	1.00	49.25	C
ATOM	4977	CA	ASN	C	187	69.739	116.005	15.347	1.00	49.25	C
ATOM	4978	CB	ASN	C	187	69.646	115.476	13.912	1.00	100.07	C
ATOM	4979	CG	ASN	C	187	70.553	116.219	12.952	1.00	100.07	C
ATOM	4980	OD1	ASN	C	187	71.684	116.558	13.288	1.00	100.07	C
ATOM	4981	ND2	ASN	C	187	70.063	116.459	11.739	1.00	100.07	C
ATOM	4982	C	ASN	C	187	71.051	115.557	16.003	1.00	49.25	C
ATOM	4983	O	ASN	C	187	71.154	114.453	16.555	1.00	49.25	C
ATOM	4984	N	LYS	C	188	72.037	116.450	15.969	1.00	96.97	C
ATOM	4985	CA	LYS	C	188	73.361	116.185	16.529	1.00	96.97	C
ATOM	4986	CB	LYS	C	188	74.092	115.171	15.633	1.00	100.07	C
ATOM	4987	CG	LYS	C	188	75.556	114.905	15.983	1.00	100.07	C
ATOM	4988	CD	LYS	C	188	76.295	114.220	14.832	1.00	100.07	C
ATOM	4989	CE	LYS	C	188	75.670	112.879	14.465	1.00	100.07	C
ATOM	4990	NZ	LYS	C	188	75.753	111.881	15.572	1.00	100.07	C
ATOM	4991	C	LYS	C	188	74.168	117.489	16.596	1.00	96.97	C
ATOM	4992	O	LYS	C	188	73.862	118.445	15.880	1.00	96.97	C
ATOM	4993	N	ALA	C	189	75.171	117.518	17.478	1.00	79.36	C
ATOM	4994	CA	ALA	C	189	76.092	118.654	17.646	1.00	79.36	C
ATOM	4995	CB	ALA	C	189	76.488	119.205	16.270	1.00	100.07	C
ATOM	4996	C	ALA	C	189	75.738	119.819	18.569	1.00	79.36	C
ATOM	4997	O	ALA	C	189	74.586	120.225	18.705	1.00	79.36	C
ATOM	4998	N	LYS	C	190	76.781	120.360	19.182	1.00	67.78	C
ATOM	4999	CA	LYS	C	190	76.676	121.487	20.098	1.00	67.78	C
ATOM	5000	CB	LYS	C	190	77.584	121.238	21.323	1.00	100.07	C
ATOM	5001	CG	LYS	C	190	77.626	122.351	22.396	1.00	100.07	C
ATOM	5002	CD	LYS	C	190	78.597	122.004	23.549	1.00	100.07	C

ATOM	5003	CE	LYS	C	190	78.694	123.119	24.602	1.00100.07	C
ATOM	5004	NZ	LYS	C	190	79.616	122.794	25.735	1.00100.07	C
ATOM	5005	C	LYS	C	190	77.134	122.739	19.347	1.00 67.78	C
ATOM	5006	O	LYS	C	190	77.673	123.674	19.951	1.00 67.78	C
ATOM	5007	N	PHE	C	191	76.924	122.762	18.031	1.00 66.37	C
ATOM	5008	CA	PHE	C	191	77.354	123.912	17.241	1.00 66.37	C
ATOM	5009	CB	PHE	C	191	76.927	123.754	15.776	1.00 74.59	C
ATOM	5010	CG	PHE	C	191	75.594	124.358	15.452	1.00 74.59	C
ATOM	5011	CD1	PHE	C	191	75.479	125.718	15.187	1.00 74.59	C
ATOM	5012	CD2	PHE	C	191	74.452	123.566	15.389	1.00 74.59	C
ATOM	5013	CE1	PHE	C	191	74.243	126.280	14.860	1.00 74.59	C
ATOM	5014	CE2	PHE	C	191	73.215	124.120	15.065	1.00 74.59	C
ATOM	5015	CZ	PHE	C	191	73.112	125.477	14.799	1.00 74.59	C
ATOM	5016	C	PHE	C	191	76.804	125.200	17.846	1.00 66.37	C
ATOM	5017	O	PHE	C	191	75.608	125.322	18.120	1.00 66.37	C
ATOM	5018	N	PRO	C	192	77.688	126.173	18.089	1.00 40.46	C
ATOM	5019	CD	PRO	C	192	79.145	126.072	17.906	1.00 76.02	C
ATOM	5020	CA	PRO	C	192	77.328	127.466	18.672	1.00 40.46	C
ATOM	5021	CB	PRO	C	192	78.641	128.232	18.617	1.00 76.02	C
ATOM	5022	CG	PRO	C	192	79.654	127.142	18.834	1.00 76.02	C
ATOM	5023	C	PRO	C	192	76.192	128.195	17.961	1.00 40.46	C
ATOM	5024	O	PRO	C	192	76.264	128.486	16.758	1.00 40.46	C
ATOM	5025	N	LEU	C	193	75.151	128.497	18.734	1.00 60.89	C
ATOM	5026	CA	LEU	C	193	73.963	129.188	18.234	1.00 60.89	C
ATOM	5027	CB	LEU	C	193	73.038	129.533	19.409	1.00 48.89	C
ATOM	5028	CG	LEU	C	193	71.762	130.334	19.125	1.00 48.89	C
ATOM	5029	CD1	LEU	C	193	72.105	131.774	18.814	1.00 48.89	C
ATOM	5030	CD2	LEU	C	193	71.008	129.705	17.976	1.00 48.89	C
ATOM	5031	C	LEU	C	193	74.265	130.454	17.436	1.00 60.89	C
ATOM	5032	O	LEU	C	193	73.502	130.847	16.552	1.00 60.89	C
ATOM	5033	N	VAL	C	194	75.375	131.097	17.757	1.00 71.15	C
ATOM	5034	CA	VAL	C	194	75.743	132.315	17.069	1.00 71.15	C
ATOM	5035	CB	VAL	C	194	76.998	132.936	17.682	1.00100.02	C
ATOM	5036	CG1	VAL	C	194	77.129	134.381	17.226	1.00100.02	C
ATOM	5037	CG2	VAL	C	194	76.947	132.824	19.196	1.00100.02	C
ATOM	5038	C	VAL	C	194	76.029	132.059	15.596	1.00 71.15	C
ATOM	5039	O	VAL	C	194	75.603	132.829	14.727	1.00 71.15	C
ATOM	5040	N	LEU	C	195	76.748	130.977	15.311	1.00 47.15	C
ATOM	5041	CA	LEU	C	195	77.094	130.699	13.935	1.00 47.15	C
ATOM	5042	CB	LEU	C	195	77.851	129.380	13.801	1.00 30.73	C
ATOM	5043	CG	LEU	C	195	78.273	129.060	12.353	1.00 30.73	C
ATOM	5044	CD1	LEU	C	195	79.236	130.113	11.840	1.00 30.73	C
ATOM	5045	CD2	LEU	C	195	78.916	127.672	12.281	1.00 30.73	C
ATOM	5046	C	LEU	C	195	75.872	130.687	13.051	1.00 47.15	C
ATOM	5047	O	LEU	C	195	75.874	131.334	12.014	1.00 47.15	C
ATOM	5048	N	LEU	C	196	74.818	129.977	13.440	1.00 31.79	C
ATOM	5049	CA	LEU	C	196	73.651	129.963	12.567	1.00 31.79	C
ATOM	5050	CB	LEU	C	196	72.472	129.190	13.160	1.00 36.06	C
ATOM	5051	CG	LEU	C	196	71.180	129.532	12.380	1.00 36.06	C
ATOM	5052	CD1	LEU	C	196	71.322	129.076	10.942	1.00 36.06	C
ATOM	5053	CD2	LEU	C	196	69.952	128.902	13.028	1.00 36.06	C
ATOM	5054	C	LEU	C	196	73.189	131.380	12.284	1.00 31.79	C
ATOM	5055	O	LEU	C	196	73.044	131.763	11.120	1.00 31.79	C
ATOM	5056	N	LEU	C	197	72.943	132.139	13.352	1.00 53.35	C
ATOM	5057	CA	LEU	C	197	72.486	133.520	13.238	1.00 53.35	C
ATOM	5058	CB	LEU	C	197	72.559	134.212	14.586	1.00 13.56	C
ATOM	5059	CG	LEU	C	197	71.501	133.713	15.560	1.00 13.56	C
ATOM	5060	CD1	LEU	C	197	71.666	134.372	16.901	1.00 13.56	C
ATOM	5061	CD2	LEU	C	197	70.134	134.019	14.988	1.00 13.56	C
ATOM	5062	C	LEU	C	197	73.354	134.255	12.253	1.00 53.35	C
ATOM	5063	O	LEU	C	197	72.851	134.933	11.347	1.00 53.35	C
ATOM	5064	N	ARG	C	198	74.664	134.119	12.451	1.00 53.87	C
ATOM	5065	CA	ARG	C	198	75.662	134.727	11.573	1.00 53.87	C
ATOM	5066	CB	ARG	C	198	76.960	133.909	11.681	1.00100.07	C
ATOM	5067	CG	ARG	C	198	78.258	134.508	11.127	1.00100.07	C
ATOM	5068	CD	ARG	C	198	79.423	133.535	11.476	1.00100.07	C
ATOM	5069	NE	ARG	C	198	80.659	133.698	10.692	1.00100.07	C
ATOM	5070	CZ	ARG	C	198	81.727	132.896	10.778	1.00100.07	C
ATOM	5071	NH1	ARG	C	198	81.735	131.861	11.614	1.00100.07	C
ATOM	5072	NH2	ARG	C	198	82.794	133.126	10.021	1.00100.07	C
ATOM	5073	C	ARG	C	198	75.027	134.622	10.180	1.00 53.87	C
ATOM	5074	O	ARG	C	198	74.616	135.628	9.594	1.00 53.87	C
ATOM	5075	N	VAL	C	199	74.889	133.391	9.692	1.00 47.34	C
ATOM	5076	CA	VAL	C	199	74.284	133.145	8.392	1.00 47.34	C
ATOM	5077	CB	VAL	C	199	74.040	131.641	8.155	1.00 80.39	C
ATOM	5078	CG1	VAL	C	199	72.734	131.430	7.410	1.00 80.39	C
ATOM	5079	CG2	VAL	C	199	75.188	131.057	7.347	1.00 80.39	C
ATOM	5080	C	VAL	C	199	72.965	133.877	8.254	1.00 47.34	C
ATOM	5081	O	VAL	C	199	72.821	134.734	7.395	1.00 47.34	C
ATOM	5082	N	LEU	C	200	72.004	133.548	9.105	1.00 54.72	C
ATOM	5083	CA	LEU	C	200	70.702	134.188	9.028	1.00 54.72	C
ATOM	5084	CB	LEU	C	200	69.822	133.750	10.209	1.00 51.02	C
ATOM	5085	CG	LEU	C	200	69.795	132.231	10.424	1.00 51.02	C
ATOM	5086	CD1	LEU	C	200	68.560	131.831	11.201	1.00 51.02	C

ATOM	5087	CD2	LEU	C	200	69.817	131.531	9.088	1.00	51.02	C
ATOM	5088	C	LEU	C	200	70.826	135.714	8.956	1.00	54.72	C
ATOM	5089	O	LEU	C	200	69.850	136.420	8.653	1.00	54.72	C
ATOM	5090	N	GLY	C	201	72.025	136.227	9.221	1.00	88.81	C
ATOM	5091	CA	GLY	C	201	72.227	137.661	9.126	1.00	88.81	C
ATOM	5092	C	GLY	C	201	72.626	138.423	10.373	1.00	88.81	C
ATOM	5093	O	GLY	C	201	73.504	139.284	10.309	1.00	88.81	C
ATOM	5094	N	TYR	C	202	71.983	138.133	11.500	1.00	50.03	C
ATOM	5095	CA	TYR	C	202	72.304	138.830	12.736	1.00	50.03	C
ATOM	5096	CB	TYR	C	202	71.568	138.221	13.923	1.00	91.56	C
ATOM	5097	CG	TYR	C	202	70.107	138.029	13.669	1.00	91.56	C
ATOM	5098	CD1	TYR	C	202	69.642	136.875	13.064	1.00	91.56	C
ATOM	5099	CE1	TYR	C	202	68.305	136.705	12.786	1.00	91.56	C
ATOM	5100	CD2	TYR	C	202	69.192	139.018	13.993	1.00	91.56	C
ATOM	5101	CE2	TYR	C	202	67.846	138.861	13.719	1.00	91.56	C
ATOM	5102	CZ	TYR	C	202	67.406	137.700	13.117	1.00	91.56	C
ATOM	5103	OH	TYR	C	202	66.063	137.510	12.877	1.00	91.56	C
ATOM	5104	C	TYR	C	202	73.786	138.717	12.963	1.00	50.03	C
ATOM	5105	O	TYR	C	202	74.435	137.843	12.396	1.00	50.03	C
ATOM	5106	N	ASP	C	203	74.318	139.609	13.788	1.00	56.36	C
ATOM	5107	CA	ASP	C	203	75.738	139.628	14.095	1.00	56.36	C
ATOM	5108	CB	ASP	C	203	76.587	139.377	12.833	1.00	100.07	C
ATOM	5109	CG	ASP	C	203	76.061	140.117	11.599	1.00	100.07	C
ATOM	5110	OD1	ASP	C	203	75.712	141.316	11.712	1.00	100.07	C
ATOM	5111	OD2	ASP	C	203	76.011	139.493	10.511	1.00	100.07	C
ATOM	5112	C	ASP	C	203	76.152	140.949	14.716	1.00	56.36	C
ATOM	5113	O	ASP	C	203	75.904	142.018	14.165	1.00	56.36	C
ATOM	5114	N	GLN	C	204	76.785	140.846	15.876	1.00	72.47	C
ATOM	5115	CA	GLN	C	204	77.287	141.989	16.621	1.00	72.47	C
ATOM	5116	CB	GLN	C	204	78.592	142.483	15.997	1.00	72.98	C
ATOM	5117	CG	GLN	C	204	79.460	143.213	16.987	1.00	72.98	C
ATOM	5118	CD	GLN	C	204	79.751	142.357	18.206	1.00	72.98	C
ATOM	5119	OE1	GLN	C	204	78.831	141.861	18.867	1.00	72.98	C
ATOM	5120	NE2	GLN	C	204	81.035	142.176	18.510	1.00	72.98	C
ATOM	5121	C	GLN	C	204	76.332	143.159	16.742	1.00	72.47	C
ATOM	5122	O	GLN	C	204	75.809	143.650	15.750	1.00	72.47	C
ATOM	5123	N	GLU	C	205	76.124	143.613	17.968	1.00	53.41	C
ATOM	5124	CA	GLU	C	205	75.254	144.749	18.200	1.00	53.41	C
ATOM	5125	CB	GLU	C	205	75.979	146.045	17.820	1.00	100.07	C
ATOM	5126	CG	GLU	C	205	77.134	146.410	18.755	1.00	100.07	C
ATOM	5127	CD	GLU	C	205	77.684	147.806	18.493	1.00	100.07	C
ATOM	5128	OE1	GLU	C	205	78.190	148.044	17.375	1.00	100.07	C
ATOM	5129	OE2	GLU	C	205	77.609	148.666	19.401	1.00	100.07	C
ATOM	5130	C	GLU	C	205	73.933	144.642	17.444	1.00	53.41	C
ATOM	5131	O	GLU	C	205	72.900	144.391	18.058	1.00	53.41	C
ATOM	5132	N	THR	C	206	73.946	144.842	16.125	1.00	100.07	C
ATOM	5133	CA	THR	C	206	72.708	144.727	15.349	1.00	100.07	C
ATOM	5134	CB	THR	C	206	72.987	144.559	13.806	1.00	92.33	C
ATOM	5135	OG1	THR	C	206	71.781	144.790	13.064	1.00	92.33	C
ATOM	5136	CG2	THR	C	206	73.487	143.159	13.481	1.00	92.33	C
ATOM	5137	C	THR	C	206	72.031	143.481	15.916	1.00	100.07	C
ATOM	5138	O	THR	C	206	70.806	143.345	15.898	1.00	100.07	C
ATOM	5139	N	LEU	C	207	72.866	142.589	16.447	1.00	55.66	C
ATOM	5140	CA	LEU	C	207	72.407	141.361	17.070	1.00	55.66	C
ATOM	5141	CB	LEU	C	207	73.581	140.389	17.240	1.00	81.45	C
ATOM	5142	CG	LEU	C	207	73.260	139.010	17.825	1.00	81.45	C
ATOM	5143	CD1	LEU	C	207	72.044	138.425	17.132	1.00	81.45	C
ATOM	5144	CD2	LEU	C	207	74.456	138.090	17.667	1.00	81.45	C
ATOM	5145	C	LEU	C	207	71.859	141.782	18.423	1.00	55.66	C
ATOM	5146	O	LEU	C	207	70.789	142.388	18.501	1.00	55.66	C
ATOM	5147	N	VAL	C	208	72.583	141.458	19.488	1.00	65.79	C
ATOM	5148	CA	VAL	C	208	72.161	141.863	20.820	1.00	65.79	C
ATOM	5149	CB	VAL	C	208	72.873	141.073	21.921	1.00	100.07	C
ATOM	5150	CG1	VAL	C	208	72.747	141.797	23.244	1.00	100.07	C
ATOM	5151	CG2	VAL	C	208	72.273	139.693	22.029	1.00	100.07	C
ATOM	5152	C	VAL	C	208	72.612	143.302	20.871	1.00	65.79	C
ATOM	5153	O	VAL	C	208	73.547	143.674	20.158	1.00	65.79	C
ATOM	5154	N	ARG	C	209	71.979	144.089	21.735	1.00	99.95	C
ATOM	5155	CA	ARG	C	209	72.252	145.519	21.840	1.00	99.95	C
ATOM	5156	CB	ARG	C	209	73.729	145.826	21.533	1.00	100.07	C
ATOM	5157	CG	ARG	C	209	74.700	145.161	22.527	1.00	100.07	C
ATOM	5158	CD	ARG	C	209	76.155	145.589	22.327	1.00	100.07	C
ATOM	5159	NE	ARG	C	209	77.002	145.186	23.453	1.00	100.07	C
ATOM	5160	CZ	ARG	C	209	78.293	145.491	23.580	1.00	100.07	C
ATOM	5161	NH1	ARG	C	209	78.910	146.206	22.648	1.00	100.07	C
ATOM	5162	NH2	ARG	C	209	78.971	145.085	24.648	1.00	100.07	C
ATOM	5163	C	ARG	C	209	71.313	145.972	20.730	1.00	99.95	C
ATOM	5164	O	ARG	C	209	71.573	146.903	19.970	1.00	99.95	C
ATOM	5165	N	GLU	C	210	70.207	145.231	20.683	1.00	71.12	C
ATOM	5166	CA	GLU	C	210	69.107	145.358	19.738	1.00	71.12	C
ATOM	5167	CB	GLU	C	210	69.636	145.502	18.308	1.00	100.07	C
ATOM	5168	CG	GLU	C	210	69.087	146.704	17.548	1.00	100.07	C
ATOM	5169	CD	GLU	C	210	69.703	148.018	17.998	1.00	100.07	C
ATOM	5170	OE1	GLU	C	210	70.945	148.141	17.931	1.00	100.07	C

ATOM	5171	OE2	GLU	C	210	68.946	148.927	18.410	1.00100.07	C
ATOM	5172	C	GLU	C	210	68.385	144.008	19.900	1.00 71.12	C
ATOM	5173	O	GLU	C	210	67.498	143.633	19.121	1.00 71.12	C
ATOM	5174	N	LEU	C	211	68.819	143.273	20.921	1.00 54.95	C
ATOM	5175	CA	LEU	C	211	68.251	141.980	21.264	1.00 54.95	C
ATOM	5176	CB	LEU	C	211	69.046	140.836	20.631	1.00 69.50	C
ATOM	5177	CG	LEU	C	211	68.786	139.481	21.316	1.00 69.50	C
ATOM	5178	CD1	LEU	C	211	67.314	139.125	21.179	1.00 69.50	C
ATOM	5179	CD2	LEU	C	211	69.652	138.389	20.723	1.00 69.50	C
ATOM	5180	C	LEU	C	211	68.321	141.826	22.768	1.00 54.95	C
ATOM	5181	O	LEU	C	211	67.340	142.025	23.493	1.00 54.95	C
ATOM	5182	N	SER	C	212	69.509	141.459	23.222	1.00 99.88	C
ATOM	5183	CA	SER	C	212	69.743	141.255	24.632	1.00 99.88	C
ATOM	5184	CB	SER	C	212	70.710	140.092	24.827	1.00100.07	C
ATOM	5185	OG	SER	C	212	70.406	139.040	23.925	1.00100.07	C
ATOM	5186	C	SER	C	212	70.316	142.534	25.214	1.00 99.88	C
ATOM	5187	O	SER	C	212	70.620	143.474	24.480	1.00 99.88	C
ATOM	5188	N	ALA	C	213	70.461	142.553	26.534	1.00 65.46	C
ATOM	5189	CA	ALA	C	213	70.968	143.699	27.270	1.00 65.46	C
ATOM	5190	CB	ALA	C	213	70.391	144.994	26.729	1.00 50.68	C
ATOM	5191	C	ALA	C	213	70.424	143.442	28.645	1.00 65.46	C
ATOM	5192	O	ALA	C	213	71.167	143.102	29.563	1.00 65.46	C
ATOM	5193	N	TYR	C	214	69.109	143.589	28.779	1.00100.07	C
ATOM	5194	CA	TYR	C	214	68.478	143.334	30.059	1.00100.07	C
ATOM	5195	CB	TYR	C	214	66.943	143.486	29.966	1.00 65.35	C
ATOM	5196	CG	TYR	C	214	66.223	142.649	28.912	1.00 65.35	C
ATOM	5197	CD1	TYR	C	214	66.765	141.448	28.420	1.00 65.35	C
ATOM	5198	CE1	TYR	C	214	66.079	140.661	27.496	1.00 65.35	C
ATOM	5199	CD2	TYR	C	214	64.967	143.034	28.446	1.00 65.35	C
ATOM	5200	CE2	TYR	C	214	64.270	142.249	27.523	1.00 65.35	C
ATOM	5201	CZ	TYR	C	214	64.833	141.070	27.052	1.00 65.35	C
ATOM	5202	OH	TYR	C	214	64.154	140.331	26.113	1.00 65.35	C
ATOM	5203	C	TYR	C	214	68.883	141.914	30.470	1.00100.07	C
ATOM	5204	O	TYR	C	214	69.010	141.597	31.654	1.00100.07	C
ATOM	5205	N	GLY	C	215	69.107	141.072	29.467	1.00 80.24	C
ATOM	5206	CA	GLY	C	215	69.520	139.712	29.711	1.00 80.24	C
ATOM	5207	C	GLY	C	215	70.896	139.628	29.099	1.00 80.24	C
ATOM	5208	O	GLY	C	215	71.041	139.784	27.887	1.00 80.24	C
ATOM	5209	N	ASP	C	216	71.912	139.421	29.931	1.00 73.01	C
ATOM	5210	CA	ASP	C	216	73.282	139.326	29.439	1.00 73.01	C
ATOM	5211	CB	ASP	C	216	74.256	139.267	30.613	1.00100.07	C
ATOM	5212	CG	ASP	C	216	74.180	140.505	31.482	1.00100.07	C
ATOM	5213	OD1	ASP	C	216	73.091	140.775	32.028	1.00100.07	C
ATOM	5214	OD2	ASP	C	216	75.198	141.217	31.613	1.00100.07	C
ATOM	5215	C	ASP	C	216	73.394	138.082	28.589	1.00 73.01	C
ATOM	5216	O	ASP	C	216	72.720	137.959	27.569	1.00 73.01	C
ATOM	5217	N	LEU	C	217	74.243	137.153	28.999	1.00 98.70	C
ATOM	5218	CA	LEU	C	217	74.384	135.915	28.249	1.00 98.70	C
ATOM	5219	CB	LEU	C	217	73.049	135.152	28.263	1.00100.07	C
ATOM	5220	CG	LEU	C	217	72.003	135.553	29.323	1.00100.07	C
ATOM	5221	CD1	LEU	C	217	70.897	134.520	29.360	1.00100.07	C
ATOM	5222	CD2	LEU	C	217	72.634	135.656	30.701	1.00100.07	C
ATOM	5223	C	LEU	C	217	74.801	136.221	26.811	1.00 98.70	C
ATOM	5224	O	LEU	C	217	74.785	135.344	25.943	1.00 98.70	C
ATOM	5225	N	VAL	C	218	75.160	137.480	26.570	1.00 98.49	C
ATOM	5226	CA	VAL	C	218	75.601	137.918	25.253	1.00 98.49	C
ATOM	5227	CB	VAL	C	218	75.181	139.364	24.954	1.00 59.59	C
ATOM	5228	CG1	VAL	C	218	75.392	139.661	23.475	1.00 59.59	C
ATOM	5229	CG2	VAL	C	218	73.744	139.585	25.370	1.00 59.59	C
ATOM	5230	C	VAL	C	218	77.116	137.865	25.264	1.00 98.49	C
ATOM	5231	O	VAL	C	218	77.741	137.482	24.279	1.00 98.49	C
ATOM	5232	N	GLN	C	219	77.699	138.265	26.392	1.00 84.51	C
ATOM	5233	CA	GLN	C	219	79.146	138.236	26.560	1.00 84.51	C
ATOM	5234	CB	GLN	C	219	79.528	138.715	27.965	1.00100.03	C
ATOM	5235	CG	GLN	C	219	79.308	140.201	28.224	1.00100.03	C
ATOM	5236	CD	GLN	C	219	79.498	140.581	29.696	1.00100.03	C
ATOM	5237	OE1	GLN	C	219	80.426	140.112	30.362	1.00100.03	C
ATOM	5238	NE2	GLN	C	219	78.622	141.446	30.202	1.00100.03	C
ATOM	5239	C	GLN	C	219	79.592	136.784	26.365	1.00 84.51	C
ATOM	5240	O	GLN	C	219	80.743	136.426	26.620	1.00 84.51	C
ATOM	5241	N	GLY	C	220	78.650	135.955	25.926	1.00 93.33	C
ATOM	5242	CA	GLY	C	220	78.918	134.554	25.679	1.00 93.33	C
ATOM	5243	C	GLY	C	220	78.294	134.174	24.352	1.00 93.33	C
ATOM	5244	O	GLY	C	220	78.074	132.997	24.059	1.00 93.33	C
ATOM	5245	N	LEU	C	221	78.004	135.194	23.551	1.00 91.77	C
ATOM	5246	CA	LEU	C	221	77.402	135.018	22.233	1.00 91.77	C
ATOM	5247	CB	LEU	C	221	75.948	135.498	22.252	1.00 48.22	C
ATOM	5248	CG	LEU	C	221	75.104	135.084	21.051	1.00 48.22	C
ATOM	5249	CD1	LEU	C	221	74.677	133.644	21.284	1.00 48.22	C
ATOM	5250	CD2	LEU	C	221	73.891	135.998	20.877	1.00 48.22	C
ATOM	5251	C	LEU	C	221	78.191	135.868	21.239	1.00 91.77	C
ATOM	5252	O	LEU	C	221	77.843	135.961	20.063	1.00 91.77	C
ATOM	5253	N	LEU	C	222	79.263	136.481	21.728	1.00 68.85	C
ATOM	5254	CA	LEU	C	222	80.083	137.355	20.913	1.00 68.85	C

ATOM	5255	CB	LEU	C	222	80.269	138.670	21.652	1.00	50.24	C
ATOM	5256	CG	LEU	C	222	78.933	139.159	22.213	1.00	50.24	C
ATOM	5257	CD1	LEU	C	222	79.164	140.356	23.113	1.00	50.24	C
ATOM	5258	CD2	LEU	C	222	77.983	139.500	21.082	1.00	50.24	C
ATOM	5259	C	LEU	C	222	81.434	136.778	20.514	1.00	68.85	C
ATOM	5260	O	LEU	C	222	81.876	136.979	19.391	1.00	68.85	C
ATOM	5261	N	ASP	C	223	82.112	136.079	21.417	1.00	100.07	C
ATOM	5262	CA	ASP	C	223	83.399	135.502	21.040	1.00	100.07	C
ATOM	5263	CB	ASP	C	223	84.250	135.159	22.255	1.00	99.92	C
ATOM	5264	CG	ASP	C	223	85.546	134.498	21.862	1.00	99.92	C
ATOM	5265	OD1	ASP	C	223	86.279	135.089	21.043	1.00	99.92	C
ATOM	5266	OD2	ASP	C	223	85.821	133.388	22.359	1.00	99.92	C
ATOM	5267	C	ASP	C	223	83.191	134.252	20.201	1.00	100.07	C
ATOM	5268	O	ASP	C	223	82.099	133.676	20.188	1.00	100.07	C
ATOM	5269	N	GLU	C	224	84.242	133.823	19.512	1.00	100.07	C
ATOM	5270	CA	GLU	C	224	84.145	132.669	18.625	1.00	100.07	C
ATOM	5271	CB	GLU	C	224	83.543	131.453	19.340	1.00	100.07	C
ATOM	5272	CG	GLU	C	224	83.776	130.126	18.610	1.00	100.07	C
ATOM	5273	CD	GLU	C	224	85.253	129.726	18.548	1.00	100.07	C
ATOM	5274	OE1	GLU	C	224	85.869	129.546	19.621	1.00	100.07	C
ATOM	5275	OE2	GLU	C	224	85.800	129.585	17.430	1.00	100.07	C
ATOM	5276	C	GLU	C	224	83.196	133.179	17.547	1.00	100.07	C
ATOM	5277	O	GLU	C	224	82.964	132.537	16.525	1.00	100.07	C
ATOM	5278	N	ALA	C	225	82.656	134.364	17.819	1.00	100.07	C
ATOM	5279	CA	ALA	C	225	81.744	135.081	16.940	1.00	100.07	C
ATOM	5280	CB	ALA	C	225	80.427	135.373	17.650	1.00	100.07	C
ATOM	5281	C	ALA	C	225	82.491	136.370	16.648	1.00	100.07	C
ATOM	5282	O	ALA	C	225	82.201	137.079	15.678	1.00	100.07	C
ATOM	5283	N	VAL	C	226	83.446	136.669	17.532	1.00	100.07	C
ATOM	5284	CA	VAL	C	226	84.315	137.823	17.364	1.00	100.07	C
ATOM	5285	CB	VAL	C	226	85.339	137.943	18.525	1.00	78.06	C
ATOM	5286	CG1	VAL	C	226	86.249	139.144	18.302	1.00	78.06	C
ATOM	5287	CG2	VAL	C	226	84.615	138.086	19.846	1.00	78.06	C
ATOM	5288	C	VAL	C	226	85.009	137.314	16.111	1.00	100.07	C
ATOM	5289	O	VAL	C	226	85.512	138.069	15.277	1.00	100.07	C
ATOM	5290	N	LEU	C	227	85.002	135.987	16.008	1.00	100.07	C
ATOM	5291	CA	LEU	C	227	85.553	135.281	14.875	1.00	100.07	C
ATOM	5292	CB	LEU	C	227	85.899	133.836	15.249	1.00	73.25	C
ATOM	5293	CG	LEU	C	227	86.534	133.549	16.611	1.00	73.25	C
ATOM	5294	CD1	LEU	C	227	86.971	132.090	16.656	1.00	73.25	C
ATOM	5295	CD2	LEU	C	227	87.718	134.470	16.844	1.00	73.25	C
ATOM	5296	C	LEU	C	227	84.398	135.273	13.885	1.00	100.07	C
ATOM	5297	O	LEU	C	227	84.449	135.929	12.848	1.00	100.07	C
ATOM	5298	N	ALA	C	228	83.340	134.551	14.245	1.00	73.62	C
ATOM	5299	CA	ALA	C	228	82.159	134.419	13.400	1.00	73.62	C
ATOM	5300	CB	ALA	C	228	81.008	133.853	14.213	1.00	5.07	C
ATOM	5301	C	ALA	C	228	81.718	135.697	12.672	1.00	73.62	C
ATOM	5302	O	ALA	C	228	80.865	136.452	13.153	1.00	73.62	C
ATOM	5303	N	MET	C	229	82.307	135.907	11.493	1.00	77.26	C
ATOM	5304	CA	MET	C	229	82.021	137.056	10.637	1.00	77.26	C
ATOM	5305	CB	MET	C	229	82.959	138.218	10.986	1.00	99.54	C
ATOM	5306	CG	MET	C	229	83.253	138.388	12.465	1.00	99.54	C
ATOM	5307	SD	MET	C	229	81.831	138.883	13.422	1.00	99.54	C
ATOM	5308	CE	MET	C	229	82.273	140.581	13.802	1.00	99.54	C
ATOM	5309	C	MET	C	229	82.247	136.652	9.165	1.00	77.26	C
ATOM	5310	O	MET	C	229	83.396	136.541	8.730	1.00	77.26	C
ATOM	5311	N	ARG	C	230	81.156	136.434	8.421	1.00	100.07	C
ATOM	5312	CA	ARG	C	230	81.176	136.049	6.993	1.00	100.07	C
ATOM	5313	CB	ARG	C	230	82.581	135.579	6.559	1.00	100.07	C
ATOM	5314	CG	ARG	C	230	82.762	135.220	5.064	1.00	100.07	C
ATOM	5315	CD	ARG	C	230	84.259	135.064	4.733	1.00	100.07	C
ATOM	5316	NE	ARG	C	230	84.556	134.258	3.545	1.00	100.07	C
ATOM	5317	CZ	ARG	C	230	84.164	134.547	2.305	1.00	100.07	C
ATOM	5318	NH1	ARG	C	230	83.441	135.634	2.071	1.00	100.07	C
ATOM	5319	NH2	ARG	C	230	84.513	133.757	1.291	1.00	100.07	C
ATOM	5320	C	ARG	C	230	80.153	134.947	6.692	1.00	100.07	C
ATOM	5321	O	ARG	C	230	80.460	133.758	6.792	1.00	100.07	C
ATOM	5322	N	PRO	C	231	78.924	135.330	6.304	1.00	40.50	C
ATOM	5323	CD	PRO	C	231	78.526	136.671	5.859	1.00	42.04	C
ATOM	5324	CA	PRO	C	231	77.866	134.361	5.994	1.00	40.50	C
ATOM	5325	CB	PRO	C	231	76.813	135.205	5.295	1.00	42.04	C
ATOM	5326	CG	PRO	C	231	77.617	136.335	4.719	1.00	42.04	C
ATOM	5327	C	PRO	C	231	78.360	133.232	5.124	1.00	40.50	C
ATOM	5328	O	PRO	C	231	78.371	132.080	5.546	1.00	40.50	C
ATOM	5329	N	GLU	C	232	78.762	133.573	3.905	1.00	92.40	C
ATOM	5330	CA	GLU	C	232	79.277	132.582	2.973	1.00	92.40	C
ATOM	5331	CB	GLU	C	232	80.204	133.251	1.952	1.00	100.07	C
ATOM	5332	CG	GLU	C	232	80.567	132.408	0.722	1.00	100.07	C
ATOM	5333	CD	GLU	C	232	81.568	131.294	1.003	1.00	100.07	C
ATOM	5334	OE1	GLU	C	232	81.189	130.297	1.650	1.00	100.07	C
ATOM	5335	OE2	GLU	C	232	82.738	131.418	0.570	1.00	100.07	C
ATOM	5336	C	GLU	C	232	80.059	131.608	3.831	1.00	92.40	C
ATOM	5337	O	GLU	C	232	79.703	130.437	3.942	1.00	92.40	C
ATOM	5338	N	GLU	C	233	81.104	132.119	4.472	1.00	52.83	C

ATOM	5339	CA	GLU	C	233	81.941	131.309	5.336	1.00	52.83	C
ATOM	5340	CB	GLU	C	233	82.932	132.177	6.098	1.00	82.05	C
ATOM	5341	CG	GLU	C	233	84.350	131.927	5.695	1.00	82.05	C
ATOM	5342	CD	GLU	C	233	84.679	130.463	5.754	1.00	82.05	C
ATOM	5343	OE1	GLU	C	233	84.626	129.893	6.864	1.00	82.05	C
ATOM	5344	OE2	GLU	C	233	84.977	129.883	4.688	1.00	82.05	C
ATOM	5345	C	GLU	C	233	81.076	130.575	6.322	1.00	52.83	C
ATOM	5346	O	GLU	C	233	81.131	129.354	6.405	1.00	52.83	C
ATOM	5347	N	ALA	C	234	80.269	131.332	7.059	1.00	72.93	C
ATOM	5348	CA	ALA	C	234	79.377	130.774	8.068	1.00	72.93	C
ATOM	5349	CB	ALA	C	234	78.211	131.711	8.305	1.00	11.79	C
ATOM	5350	C	ALA	C	234	78.858	129.396	7.693	1.00	72.93	C
ATOM	5351	O	ALA	C	234	79.104	128.424	8.407	1.00	72.93	C
ATOM	5352	N	MET	C	235	78.149	129.311	6.573	1.00	69.38	C
ATOM	5353	CA	MET	C	235	77.592	128.044	6.114	1.00	69.38	C
ATOM	5354	CB	MET	C	235	77.031	128.204	4.715	1.00	63.02	C
ATOM	5355	CG	MET	C	235	76.343	129.507	4.493	1.00	63.02	C
ATOM	5356	SD	MET	C	235	75.998	129.651	2.762	1.00	63.02	C
ATOM	5357	CE	MET	C	235	74.270	129.324	2.748	1.00	63.02	C
ATOM	5358	C	MET	C	235	78.626	126.924	6.095	1.00	69.38	C
ATOM	5359	O	MET	C	235	78.380	125.831	6.607	1.00	69.38	C
ATOM	5360	N	VAL	C	236	79.776	127.193	5.487	1.00	79.28	C
ATOM	5361	CA	VAL	C	236	80.842	126.201	5.403	1.00	79.28	C
ATOM	5362	CB	VAL	C	236	82.046	126.740	4.577	1.00	68.86	C
ATOM	5363	CG1	VAL	C	236	83.247	125.810	4.713	1.00	68.86	C
ATOM	5364	CG2	VAL	C	236	81.655	126.857	3.110	1.00	68.86	C
ATOM	5365	C	VAL	C	236	81.317	125.795	6.797	1.00	79.28	C
ATOM	5366	O	VAL	C	236	81.317	124.613	7.148	1.00	79.28	C
ATOM	5367	N	ARG	C	237	81.713	126.778	7.595	1.00	71.28	C
ATOM	5368	CA	ARG	C	237	82.190	126.500	8.938	1.00	71.28	C
ATOM	5369	CB	ARG	C	237	82.357	127.798	9.726	1.00	100.07	C
ATOM	5370	CG	ARG	C	237	82.899	127.579	11.124	1.00	100.07	C
ATOM	5371	CD	ARG	C	237	82.447	128.678	12.069	1.00	100.07	C
ATOM	5372	NE	ARG	C	237	82.653	128.298	13.467	1.00	100.07	C
ATOM	5373	CZ	ARG	C	237	82.152	128.959	14.506	1.00	100.07	C
ATOM	5374	NH1	ARG	C	237	81.408	130.044	14.315	1.00	100.07	C
ATOM	5375	NH2	ARG	C	237	82.394	128.530	15.738	1.00	100.07	C
ATOM	5376	C	ARG	C	237	81.211	125.592	9.665	1.00	71.28	C
ATOM	5377	O	ARG	C	237	81.595	124.851	10.567	1.00	71.28	C
ATOM	5378	N	LEU	C	238	79.946	125.653	9.263	1.00	96.52	C
ATOM	5379	CA	LEU	C	238	78.897	124.845	9.875	1.00	96.52	C
ATOM	5380	CB	LEU	C	238	77.562	125.572	9.765	1.00	29.95	C
ATOM	5381	CG	LEU	C	238	76.433	125.042	10.639	1.00	29.95	C
ATOM	5382	CD1	LEU	C	238	76.794	125.328	12.090	1.00	29.95	C
ATOM	5383	CD2	LEU	C	238	75.105	125.699	10.265	1.00	29.95	C
ATOM	5384	C	LEU	C	238	78.782	123.473	9.206	1.00	96.52	C
ATOM	5385	O	LEU	C	238	78.873	122.433	9.870	1.00	96.52	C
ATOM	5386	N	PHE	C	239	78.560	123.485	7.891	1.00	77.89	C
ATOM	5387	CA	PHE	C	239	78.444	122.259	7.106	1.00	77.89	C
ATOM	5388	CB	PHE	C	239	78.727	122.562	5.635	1.00	99.87	C
ATOM	5389	CG	PHE	C	239	77.738	121.957	4.684	1.00	99.87	C
ATOM	5390	CD1	PHE	C	239	77.187	122.723	3.660	1.00	99.87	C
ATOM	5391	CD2	PHE	C	239	77.390	120.616	4.777	1.00	99.87	C
ATOM	5392	CE1	PHE	C	239	76.306	122.164	2.740	1.00	99.87	C
ATOM	5393	CE2	PHE	C	239	76.514	120.045	3.861	1.00	99.87	C
ATOM	5394	CZ	PHE	C	239	75.970	120.822	2.840	1.00	99.87	C
ATOM	5395	C	PHE	C	239	79.509	121.339	7.671	1.00	77.89	C
ATOM	5396	O	PHE	C	239	79.265	120.168	7.939	1.00	77.89	C
ATOM	5397	N	THR	C	240	80.692	121.907	7.866	1.00	42.59	C
ATOM	5398	CA	THR	C	240	81.806	121.184	8.443	1.00	42.59	C
ATOM	5399	CB	THR	C	240	82.940	122.145	8.869	1.00	59.06	C
ATOM	5400	OG1	THR	C	240	83.463	122.801	7.709	1.00	59.06	C
ATOM	5401	CG2	THR	C	240	84.064	121.386	9.585	1.00	59.06	C
ATOM	5402	C	THR	C	240	81.299	120.475	9.685	1.00	42.59	C
ATOM	5403	O	THR	C	240	81.233	119.251	9.718	1.00	42.59	C
ATOM	5404	N	LEU	C	241	80.938	121.261	10.697	1.00	100.07	C
ATOM	5405	CA	LEU	C	241	80.440	120.742	11.967	1.00	100.07	C
ATOM	5406	CB	LEU	C	241	79.885	121.880	12.818	1.00	44.55	C
ATOM	5407	CG	LEU	C	241	80.862	123.035	13.055	1.00	44.55	C
ATOM	5408	CD1	LEU	C	241	80.105	124.199	13.661	1.00	44.55	C
ATOM	5409	CD2	LEU	C	241	82.011	122.600	13.950	1.00	44.55	C
ATOM	5410	C	LEU	C	241	79.376	119.678	11.762	1.00	100.07	C
ATOM	5411	O	LEU	C	241	79.093	118.892	12.667	1.00	100.07	C
ATOM	5412	N	LEU	C	242	78.771	119.671	10.579	1.00	72.59	C
ATOM	5413	CA	LEU	C	242	77.781	118.654	10.245	1.00	72.59	C
ATOM	5414	CB	LEU	C	242	76.519	119.298	9.674	1.00	85.83	C
ATOM	5415	CG	LEU	C	242	75.641	119.902	10.779	1.00	85.83	C
ATOM	5416	CD1	LEU	C	242	76.424	120.948	11.554	1.00	85.83	C
ATOM	5417	CD2	LEU	C	242	74.388	120.509	10.172	1.00	85.83	C
ATOM	5418	C	LEU	C	242	78.452	117.697	9.249	1.00	72.59	C
ATOM	5419	O	LEU	C	242	77.998	117.494	8.115	1.00	72.59	C
ATOM	5420	N	ARG	C	243	79.560	117.142	9.747	1.00	80.45	C
ATOM	5421	CA	ARG	C	243	80.477	116.195	9.107	1.00	80.45	C
ATOM	5422	CB	ARG	C	243	80.728	115.021	10.066	1.00	100.07	C

ATOM	5423	CG	ARG	C	243	81.593	115.348	11.287	1.00100.07	C
ATOM	5424	CD	ARG	C	243	81.309	114.390	12.458	1.00100.07	C
ATOM	5425	NE	ARG	C	243	81.285	112.979	12.063	1.00100.07	C
ATOM	5426	CZ	ARG	C	243	80.944	111.970	12.865	1.00100.07	C
ATOM	5427	NH1	ARG	C	243	80.593	112.193	14.124	1.00100.07	C
ATOM	5428	NH2	ARG	C	243	80.947	110.728	12.401	1.00100.07	C
ATOM	5429	C	ARG	C	243	80.221	115.630	7.713	1.00 80.45	C
ATOM	5430	O	ARG	C	243	81.092	115.718	6.848	1.00 80.45	C
ATOM	5431	N	PRO	C	244	79.040	115.026	7.479	1.00100.07	C
ATOM	5432	CD	PRO	C	244	77.926	114.899	8.442	1.00100.07	C
ATOM	5433	CA	PRO	C	244	78.662	114.428	6.189	1.00100.07	C
ATOM	5434	CB	PRO	C	244	77.137	114.414	6.258	1.00100.07	C
ATOM	5435	CG	PRO	C	244	76.910	114.036	7.682	1.00100.07	C
ATOM	5436	C	PRO	C	244	79.182	115.035	4.880	1.00100.07	C
ATOM	5437	O	PRO	C	244	79.316	116.258	4.736	1.00100.07	C
ATOM	5438	N	GLY	C	245	79.464	114.145	3.929	1.00100.07	C
ATOM	5439	CA	GLY	C	245	79.958	114.546	2.626	1.00100.07	C
ATOM	5440	C	GLY	C	245	81.149	115.481	2.650	1.00100.07	C
ATOM	5441	O	GLY	C	245	81.632	115.863	1.585	1.00100.07	C
ATOM	5442	N	ASP	C	246	81.633	115.831	3.844	1.00 94.17	C
ATOM	5443	CA	ASP	C	246	82.760	116.752	3.983	1.00 94.17	C
ATOM	5444	CB	ASP	C	246	84.082	115.985	4.017	1.00100.07	C
ATOM	5445	CG	ASP	C	246	84.160	115.025	5.186	1.00100.07	C
ATOM	5446	OD1	ASP	C	246	83.824	115.444	6.316	1.00100.07	C
ATOM	5447	OD2	ASP	C	246	84.562	113.858	4.979	1.00100.07	C
ATOM	5448	C	ASP	C	246	82.711	117.697	2.785	1.00 94.17	C
ATOM	5449	O	ASP	C	246	83.503	117.583	1.841	1.00 94.17	C
ATOM	5450	N	PRO	C	247	81.755	118.643	2.813	1.00100.07	C
ATOM	5451	CD	PRO	C	247	80.680	118.638	3.826	1.00100.07	C
ATOM	5452	CA	PRO	C	247	81.486	119.659	1.788	1.00100.07	C
ATOM	5453	CB	PRO	C	247	79.997	119.917	1.977	1.00100.07	C
ATOM	5454	CG	PRO	C	247	79.879	119.860	3.462	1.00100.07	C
ATOM	5455	C	PRO	C	247	82.270	120.982	1.720	1.00100.07	C
ATOM	5456	O	PRO	C	247	81.725	121.972	1.231	1.00100.07	C
ATOM	5457	N	PRO	C	248	83.533	121.032	2.197	1.00 72.68	C
ATOM	5458	CD	PRO	C	248	84.379	120.051	2.903	1.00100.07	C
ATOM	5459	CA	PRO	C	248	84.222	122.324	2.092	1.00 72.68	C
ATOM	5460	CB	PRO	C	248	85.658	121.971	2.459	1.00100.07	C
ATOM	5461	CG	PRO	C	248	85.459	120.925	3.516	1.00100.07	C
ATOM	5462	C	PRO	C	248	84.088	122.925	0.689	1.00 72.68	C
ATOM	5463	O	PRO	C	248	84.942	122.741	-0.186	1.00 72.68	C
ATOM	5464	N	LYS	C	249	82.985	123.642	0.506	1.00 69.22	C
ATOM	5465	CA	LYS	C	249	82.628	124.292	-0.743	1.00 69.22	C
ATOM	5466	CB	LYS	C	249	82.582	123.285	-1.896	1.00 87.67	C
ATOM	5467	CG	LYS	C	249	81.946	123.851	-3.167	1.00 87.67	C
ATOM	5468	CD	LYS	C	249	82.165	122.950	-4.375	1.00 87.67	C
ATOM	5469	CE	LYS	C	249	81.743	123.648	-5.664	1.00 87.67	C
ATOM	5470	NZ	LYS	C	249	82.217	122.925	-6.877	1.00 87.67	C
ATOM	5471	C	LYS	C	249	81.239	124.855	-0.537	1.00 69.22	C
ATOM	5472	O	LYS	C	249	80.285	124.096	-0.383	1.00 69.22	C
ATOM	5473	N	LYS	C	250	81.129	126.178	-0.516	1.00 32.54	C
ATOM	5474	CA	LYS	C	250	79.839	126.843	-0.340	1.00 32.54	C
ATOM	5475	CB	LYS	C	250	79.882	128.204	-1.043	1.00100.07	C
ATOM	5476	CG	LYS	C	250	80.749	128.202	-2.308	1.00100.07	C
ATOM	5477	CD	LYS	C	250	80.961	129.609	-2.869	1.00100.07	C
ATOM	5478	CE	LYS	C	250	81.923	129.608	-4.060	1.00100.07	C
ATOM	5479	NZ	LYS	C	250	82.124	130.976	-4.631	1.00100.07	C
ATOM	5480	C	LYS	C	250	78.712	125.982	-0.911	1.00 32.54	C
ATOM	5481	O	LYS	C	250	78.908	125.290	-1.910	1.00 32.54	C
ATOM	5482	N	ASP	C	251	77.539	126.007	-0.286	1.00100.07	C
ATOM	5483	CA	ASP	C	251	76.431	125.196	-0.786	1.00100.07	C
ATOM	5484	CB	ASP	C	251	76.517	123.777	-0.233	1.00100.07	C
ATOM	5485	CG	ASP	C	251	77.281	122.859	-1.149	1.00100.07	C
ATOM	5486	OD1	ASP	C	251	76.846	122.701	-2.311	1.00100.07	C
ATOM	5487	OD2	ASP	C	251	78.317	122.308	-0.718	1.00100.07	C
ATOM	5488	C	ASP	C	251	75.029	125.720	-0.560	1.00100.07	C
ATOM	5489	O	ASP	C	251	74.193	125.652	-1.464	1.00100.07	C
ATOM	5490	N	LYS	C	252	74.762	126.227	0.638	1.00100.07	C
ATOM	5491	CA	LYS	C	252	73.437	126.743	0.944	1.00100.07	C
ATOM	5492	CB	LYS	C	252	72.988	127.725	-0.136	1.00 81.51	C
ATOM	5493	CG	LYS	C	252	71.546	128.170	-0.011	1.00 81.51	C
ATOM	5494	CD	LYS	C	252	71.222	129.287	-0.994	1.00 81.51	C
ATOM	5495	CE	LYS	C	252	69.844	129.868	-0.732	1.00 81.51	C
ATOM	5496	NZ	LYS	C	252	69.602	131.058	-1.578	1.00 81.51	C
ATOM	5497	C	LYS	C	252	72.474	125.576	1.007	1.00100.07	C
ATOM	5498	O	LYS	C	252	71.506	125.594	1.768	1.00100.07	C
ATOM	5499	N	ALA	C	253	72.744	124.561	0.193	1.00100.07	C
ATOM	5500	CA	ALA	C	253	71.922	123.362	0.166	1.00100.07	C
ATOM	5501	CB	ALA	C	253	72.496	122.352	-0.808	1.00100.07	C
ATOM	5502	C	ALA	C	253	71.959	122.813	1.580	1.00100.07	C
ATOM	5503	O	ALA	C	253	72.704	123.324	2.424	1.00100.07	C
ATOM	5504	N	LEU	C	254	71.186	121.765	1.840	1.00 81.03	C
ATOM	5505	CA	LEU	C	254	71.133	121.211	3.183	1.00 81.03	C
ATOM	5506	CB	LEU	C	254	72.543	121.064	3.761	1.00 10.72	C

ATOM	5507	CG	LEU	C	254	72.617	120.785	5.262	1.00	10.72	C
ATOM	5508	CD1	LEU	C	254	71.649	119.664	5.693	1.00	10.72	C
ATOM	5509	CD2	LEU	C	254	74.029	120.414	5.586	1.00	10.72	C
ATOM	5510	C	LEU	C	254	70.335	122.252	3.959	1.00	81.03	C
ATOM	5511	O	LEU	C	254	69.256	121.962	4.482	1.00	81.03	C
ATOM	5512	N	ALA	C	255	70.875	123.469	4.023	1.00	39.51	C
ATOM	5513	CA	ALA	C	255	70.185	124.579	4.670	1.00	39.51	C
ATOM	5514	CB	ALA	C	255	71.140	125.786	4.834	1.00	16.33	C
ATOM	5515	C	ALA	C	255	69.057	124.878	3.664	1.00	39.51	C
ATOM	5516	O	ALA	C	255	68.135	125.649	3.919	1.00	39.51	C
ATOM	5517	N	TYR	C	256	69.154	124.224	2.510	1.00	72.15	C
ATOM	5518	CA	TYR	C	256	68.158	124.340	1.455	1.00	72.15	C
ATOM	5519	CB	TYR	C	256	68.586	123.493	0.247	1.00	100.07	C
ATOM	5520	CG	TYR	C	256	68.440	124.166	-1.112	1.00	100.07	C
ATOM	5521	CD1	TYR	C	256	69.177	125.309	-1.437	1.00	100.07	C
ATOM	5522	CE1	TYR	C	256	69.056	125.920	-2.704	1.00	100.07	C
ATOM	5523	CD2	TYR	C	256	67.575	123.647	-2.084	1.00	100.07	C
ATOM	5524	CE2	TYR	C	256	67.447	124.250	-3.352	1.00	100.07	C
ATOM	5525	CZ	TYR	C	256	68.188	125.385	-3.654	1.00	100.07	C
ATOM	5526	OH	TYR	C	256	68.051	125.988	-4.889	1.00	100.07	C
ATOM	5527	C	TYR	C	256	66.905	123.752	2.106	1.00	72.15	C
ATOM	5528	O	TYR	C	256	65.813	123.773	1.544	1.00	72.15	C
ATOM	5529	N	LEU	C	257	67.103	123.209	3.303	1.00	82.61	C
ATOM	5530	CA	LEU	C	257	66.042	122.616	4.107	1.00	82.61	C
ATOM	5531	CB	LEU	C	257	66.359	121.153	4.437	1.00	100.07	C
ATOM	5532	CG	LEU	C	257	66.487	120.060	3.373	1.00	100.07	C
ATOM	5533	CD1	LEU	C	257	66.967	118.776	4.050	1.00	100.07	C
ATOM	5534	CD2	LEU	C	257	65.161	119.825	2.685	1.00	100.07	C
ATOM	5535	C	LEU	C	257	66.001	123.419	5.407	1.00	82.61	C
ATOM	5536	O	LEU	C	257	65.991	124.650	5.369	1.00	82.61	C
ATOM	5537	N	PHE	C	258	65.991	122.708	6.541	1.00	51.05	C
ATOM	5538	CA	PHE	C	258	65.976	123.303	7.877	1.00	51.05	C
ATOM	5539	CB	PHE	C	258	67.381	123.254	8.482	1.00	99.09	C
ATOM	5540	CG	PHE	C	258	68.011	121.890	8.464	1.00	99.09	C
ATOM	5541	CD1	PHE	C	258	68.064	121.142	7.290	1.00	99.09	C
ATOM	5542	CD2	PHE	C	258	68.599	121.372	9.614	1.00	99.09	C
ATOM	5543	CE1	PHE	C	258	68.691	119.896	7.258	1.00	99.09	C
ATOM	5544	CE2	PHE	C	258	69.231	120.126	9.597	1.00	99.09	C
ATOM	5545	CZ	PHE	C	258	69.280	119.387	8.414	1.00	99.09	C
ATOM	5546	C	PHE	C	258	65.498	124.757	7.841	1.00	51.05	C
ATOM	5547	O	PHE	C	258	66.114	125.655	8.430	1.00	51.05	C
ATOM	5548	N	GLY	C	259	64.391	124.979	7.145	1.00	53.98	C
ATOM	5549	CA	GLY	C	259	63.862	126.316	7.019	1.00	53.98	C
ATOM	5550	C	GLY	C	259	63.382	126.452	5.600	1.00	53.98	C
ATOM	5551	O	GLY	C	259	62.180	126.551	5.364	1.00	53.98	C
ATOM	5552	N	LEU	C	260	64.318	126.434	4.653	1.00	49.38	C
ATOM	5553	CA	LEU	C	260	63.981	126.550	3.231	1.00	49.38	C
ATOM	5554	CB	LEU	C	260	65.271	126.554	2.348	1.00	43.29	C
ATOM	5555	CG	LEU	C	260	65.306	126.925	0.832	1.00	43.29	C
ATOM	5556	CD1	LEU	C	260	66.711	127.330	0.447	1.00	43.29	C
ATOM	5557	CD2	LEU	C	260	64.848	125.776	-0.058	1.00	43.29	C
ATOM	5558	C	LEU	C	260	63.076	125.378	2.842	1.00	49.38	C
ATOM	5559	O	LEU	C	260	63.017	124.371	3.545	1.00	49.38	C
ATOM	5560	N	LEU	C	261	62.372	125.551	1.726	1.00	100.07	C
ATOM	5561	CA	LEU	C	261	61.466	124.565	1.150	1.00	100.07	C
ATOM	5562	CB	LEU	C	261	62.272	123.548	0.315	1.00	79.47	C
ATOM	5563	CG	LEU	C	261	62.716	122.180	0.856	1.00	79.47	C
ATOM	5564	CD1	LEU	C	261	63.559	121.476	-0.194	1.00	79.47	C
ATOM	5565	CD2	LEU	C	261	63.511	122.331	2.123	1.00	79.47	C
ATOM	5566	C	LEU	C	261	60.552	123.835	2.130	1.00	100.07	C
ATOM	5567	O	LEU	C	261	60.971	123.425	3.209	1.00	100.07	C
ATOM	5568	N	ALA	C	262	59.289	123.683	1.740	1.00	66.60	C
ATOM	5569	CA	ALA	C	262	58.306	122.982	2.557	1.00	66.60	C
ATOM	5570	CB	ALA	C	262	56.894	123.410	2.173	1.00	19.85	C
ATOM	5571	C	ALA	C	262	58.465	121.479	2.349	1.00	66.60	C
ATOM	5572	O	ALA	C	262	57.476	120.754	2.215	1.00	66.60	C
ATOM	5573	N	ASP	C	263	59.711	121.021	2.297	1.00	87.18	C
ATOM	5574	CA	ASP	C	263	59.982	119.603	2.128	1.00	87.18	C
ATOM	5575	CB	ASP	C	263	61.383	119.377	1.546	1.00	93.30	C
ATOM	5576	CG	ASP	C	263	61.993	118.054	1.986	1.00	93.30	C
ATOM	5577	OD1	ASP	C	263	61.307	117.016	1.862	1.00	93.30	C
ATOM	5578	OD2	ASP	C	263	63.154	118.052	2.456	1.00	93.30	C
ATOM	5579	C	ASP	C	263	59.859	118.915	3.481	1.00	87.18	C
ATOM	5580	O	ASP	C	263	59.160	117.907	3.605	1.00	87.18	C
ATOM	5581	N	PRO	C	264	60.556	119.439	4.510	1.00	100.07	C
ATOM	5582	CD	PRO	C	264	61.872	120.081	4.360	1.00	100.07	C
ATOM	5583	CA	PRO	C	264	60.486	118.836	5.841	1.00	100.07	C
ATOM	5584	CB	PRO	C	264	61.847	118.156	5.957	1.00	100.07	C
ATOM	5585	CG	PRO	C	264	62.789	119.085	5.086	1.00	100.07	C
ATOM	5586	C	PRO	C	264	60.256	119.856	6.973	1.00	100.07	C
ATOM	5587	O	PRO	C	264	60.894	119.776	8.023	1.00	100.07	C
ATOM	5588	N	LYS	C	265	59.349	120.804	6.758	1.00	72.31	C
ATOM	5589	CA	LYS	C	265	59.048	121.836	7.753	1.00	72.31	C
ATOM	5590	CB	LYS	C	265	60.196	122.857	7.820	1.00	61.50	C

ATOM	5591	CG	LYS	C	265	60.204	123.796	9.035	1.00	61.50	C
ATOM	5592	CD	LYS	C	265	60.899	123.147	10.239	1.00	61.50	C
ATOM	5593	CE	LYS	C	265	61.087	124.124	11.387	1.00	61.50	C
ATOM	5594	NZ	LYS	C	265	61.852	123.539	12.524	1.00	61.50	C
ATOM	5595	C	LYS	C	265	57.807	122.536	7.242	1.00	72.31	C
ATOM	5596	O	LYS	C	265	57.822	123.041	6.120	1.00	72.31	C
ATOM	5597	N	ARG	C	266	56.732	122.573	8.025	1.00	100.07	C
ATOM	5598	CA	ARG	C	266	55.543	123.258	7.532	1.00	100.07	C
ATOM	5599	CB	ARG	C	266	54.941	122.482	6.353	1.00	100.07	C
ATOM	5600	CG	ARG	C	266	53.930	123.275	5.517	1.00	100.07	C
ATOM	5601	CD	ARG	C	266	53.633	122.575	4.186	1.00	100.07	C
ATOM	5602	NE	ARG	C	266	52.774	123.371	3.310	1.00	100.07	C
ATOM	5603	CZ	ARG	C	266	52.493	123.057	2.049	1.00	100.07	C
ATOM	5604	NH1	ARG	C	266	53.005	121.959	1.509	1.00	100.07	C
ATOM	5605	NH2	ARG	C	266	51.707	123.846	1.325	1.00	100.07	C
ATOM	5606	C	ARG	C	266	54.447	123.558	8.540	1.00	100.07	C
ATOM	5607	O	ARG	C	266	53.804	124.607	8.454	1.00	100.07	C
ATOM	5608	N	TYR	C	267	54.234	122.656	9.496	1.00	84.65	C
ATOM	5609	CA	TYR	C	267	53.173	122.841	10.490	1.00	84.65	C
ATOM	5610	CB	TYR	C	267	53.466	124.029	11.401	1.00	86.36	C
ATOM	5611	CG	TYR	C	267	54.922	124.194	11.775	1.00	86.36	C
ATOM	5612	CD1	TYR	C	267	55.839	124.731	10.871	1.00	86.36	C
ATOM	5613	CE1	TYR	C	267	57.162	124.942	11.228	1.00	86.36	C
ATOM	5614	CD2	TYR	C	267	55.374	123.868	13.048	1.00	86.36	C
ATOM	5615	CE2	TYR	C	267	56.696	124.078	13.416	1.00	86.36	C
ATOM	5616	CZ	TYR	C	267	57.583	124.616	12.504	1.00	86.36	C
ATOM	5617	OH	TYR	C	267	58.890	124.827	12.867	1.00	86.36	C
ATOM	5618	C	TYR	C	267	51.891	123.103	9.707	1.00	84.65	C
ATOM	5619	O	TYR	C	267	50.884	123.568	10.255	1.00	84.65	C
ATOM	5620	N	ALA	C	268	51.984	122.803	8.409	1.00	100.07	C
ATOM	5621	CA	ALA	C	268	50.920	122.939	7.411	1.00	100.07	C
ATOM	5622	CB	ALA	C	268	50.044	121.675	7.419	1.00	100.07	C
ATOM	5623	C	ALA	C	268	50.037	124.189	7.495	1.00	100.07	C
ATOM	5624	O	ALA	C	268	48.819	124.080	7.718	1.00	100.07	C
ATOM	5625	N	ALA	C	269	50.646	125.361	7.283	1.00	100.07	C
ATOM	5626	CA	ALA	C	269	49.934	126.646	7.335	1.00	100.07	C
ATOM	5627	CB	ALA	C	269	49.281	126.949	5.977	1.00	100.07	C
ATOM	5628	C	ALA	C	269	48.875	126.637	8.440	1.00	100.07	C
ATOM	5629	O	ALA	C	269	47.958	127.469	8.452	1.00	100.07	C
ATOM	5630	N	GLY	C	270	49.030	125.682	9.360	1.00	89.18	C
ATOM	5631	CA	GLY	C	270	48.118	125.515	10.469	1.00	89.18	C
ATOM	5632	C	GLY	C	270	48.834	125.823	11.762	1.00	89.18	C
ATOM	5633	O	GLY	C	270	50.049	125.625	11.875	1.00	89.18	C
ATOM	5634	N	ALA	C	271	48.058	126.312	12.726	1.00	96.46	C
ATOM	5635	CA	ALA	C	271	48.535	126.702	14.051	1.00	96.46	C
ATOM	5636	CB	ALA	C	271	47.351	126.775	15.015	1.00	65.34	C
ATOM	5637	C	ALA	C	271	49.624	125.792	14.615	1.00	96.46	C
ATOM	5638	O	ALA	C	271	49.810	124.668	14.141	1.00	96.46	C
ATOM	5639	N	ALA	C	272	50.328	126.287	15.635	1.00	66.27	C
ATOM	5640	CA	ALA	C	272	51.422	125.546	16.265	1.00	66.27	C
ATOM	5641	CB	ALA	C	272	50.971	124.154	16.673	1.00	100.07	C
ATOM	5642	C	ALA	C	272	52.488	125.464	15.199	1.00	66.27	C
ATOM	5643	O	ALA	C	272	52.524	124.527	14.402	1.00	66.27	C
ATOM	5644	N	GLY	C	273	53.360	126.458	15.201	1.00	72.04	C
ATOM	5645	CA	GLY	C	273	54.401	126.555	14.199	1.00	72.04	C
ATOM	5646	C	GLY	C	273	54.035	127.902	13.644	1.00	72.04	C
ATOM	5647	O	GLY	C	273	54.708	128.483	12.797	1.00	72.04	C
ATOM	5648	N	ALA	C	274	52.916	128.381	14.178	1.00	17.99	C
ATOM	5649	CA	ALA	C	274	52.341	129.672	13.865	1.00	17.99	C
ATOM	5650	CB	ALA	C	274	51.802	129.688	12.429	1.00	26.15	C
ATOM	5651	C	ALA	C	274	51.211	129.906	14.874	1.00	17.99	C
ATOM	5652	O	ALA	C	274	51.170	129.285	15.951	1.00	17.99	C
ATOM	5653	N	ALA	C	275	50.305	130.808	14.509	1.00	100.07	C
ATOM	5654	CA	ALA	C	275	49.160	131.172	15.331	1.00	100.07	C
ATOM	5655	CB	ALA	C	275	47.865	130.813	14.600	1.00	36.93	C
ATOM	5656	C	ALA	C	275	49.172	130.551	16.728	1.00	100.07	C
ATOM	5657	O	ALA	C	275	49.986	130.940	17.570	1.00	100.07	C
ATOM	5658	N	ALA	C	276	48.281	129.580	16.950	1.00	99.84	C
ATOM	5659	CA	ALA	C	276	48.108	128.890	18.236	1.00	99.84	C
ATOM	5660	CB	ALA	C	276	47.739	127.437	18.016	1.00	5.07	C
ATOM	5661	C	ALA	C	276	49.263	128.956	19.207	1.00	99.84	C
ATOM	5662	O	ALA	C	276	49.059	128.866	20.417	1.00	99.84	C
ATOM	5663	N	ALA	C	277	50.477	129.090	18.693	1.00	75.88	C
ATOM	5664	CA	ALA	C	277	51.622	129.160	19.574	1.00	75.88	C
ATOM	5665	CB	ALA	C	277	52.113	127.747	19.908	1.00	100.07	C
ATOM	5666	C	ALA	C	277	52.756	129.983	18.998	1.00	75.88	C
ATOM	5667	O	ALA	C	277	53.021	131.091	19.463	1.00	75.88	C
ATOM	5668	N	ALA	C	278	53.428	129.426	17.994	1.00	47.49	C
ATOM	5669	CA	ALA	C	278	54.558	130.089	17.371	1.00	47.49	C
ATOM	5670	CB	ALA	C	278	54.720	129.613	15.966	1.00	23.99	C
ATOM	5671	C	ALA	C	278	54.351	131.588	17.394	1.00	47.49	C
ATOM	5672	O	ALA	C	278	54.982	132.291	18.189	1.00	47.49	C
ATOM	5673	N	GLU	C	279	53.454	132.069	16.534	1.00	100.07	C
ATOM	5674	CA	GLU	C	279	53.156	133.493	16.458	1.00	100.07	C

ATOM	5675	CB	GLU	C	279	52.197	133.787	15.298	1.00100.07	C
ATOM	5676	CG	GLU	C	279	52.880	133.871	13.939	1.00100.07	C
ATOM	5677	CD	GLU	C	279	51.981	134.458	12.859	1.00100.07	C
ATOM	5678	OE1	GLU	C	279	51.425	135.562	13.075	1.00100.07	C
ATOM	5679	OE2	GLU	C	279	51.838	133.818	11.791	1.00100.07	C
ATOM	5680	C	GLU	C	279	52.567	134.021	17.762	1.00100.07	C
ATOM	5681	O	GLU	C	279	52.471	135.233	17.960	1.00100.07	C
ATOM	5682	N	LYS	C	280	52.175	133.120	18.657	1.00 81.12	C
ATOM	5683	CA	LYS	C	280	51.618	133.552	19.928	1.00 81.12	C
ATOM	5684	CB	LYS	C	280	50.574	132.564	20.431	1.00 49.89	C
ATOM	5685	CG	LYS	C	280	49.621	133.205	21.430	1.00 49.89	C
ATOM	5686	CD	LYS	C	280	49.261	134.642	21.000	1.00 49.89	C
ATOM	5687	CE	LYS	C	280	48.687	134.698	19.577	1.00 49.89	C
ATOM	5688	NZ	LYS	C	280	48.550	136.094	19.073	1.00 49.89	C
ATOM	5689	C	LYS	C	280	52.696	133.742	20.983	1.00 81.12	C
ATOM	5690	O	LYS	C	280	52.419	133.738	22.181	1.00 81.12	C
ATOM	5691	N	LEU	C	281	53.925	133.908	20.508	1.00 61.88	C
ATOM	5692	CA	LEU	C	281	55.108	134.127	21.334	1.00 61.88	C
ATOM	5693	CB	LEU	C	281	55.520	132.839	22.056	1.00 76.71	C
ATOM	5694	CG	LEU	C	281	54.539	132.276	23.087	1.00 76.71	C
ATOM	5695	CD1	LEU	C	281	55.055	130.969	23.676	1.00 76.71	C
ATOM	5696	CD2	LEU	C	281	54.333	133.317	24.168	1.00 76.71	C
ATOM	5697	C	LEU	C	281	56.170	134.524	20.321	1.00 61.88	C
ATOM	5698	O	LEU	C	281	57.237	133.905	20.232	1.00 61.88	C
ATOM	5699	N	GLY	C	282	55.844	135.548	19.534	1.00 89.14	C
ATOM	5700	CA	GLY	C	282	56.754	136.028	18.505	1.00 89.14	C
ATOM	5701	C	GLY	C	282	56.138	137.047	17.556	1.00 89.14	C
ATOM	5702	O	GLY	C	282	56.759	137.462	16.570	1.00 89.14	C
ATOM	5703	N	VAL	C	283	54.903	137.439	17.851	1.00 88.20	C
ATOM	5704	CA	VAL	C	283	54.199	138.428	17.052	1.00 88.20	C
ATOM	5705	CB	VAL	C	283	55.091	139.670	16.821	1.00100.07	C
ATOM	5706	CG1	VAL	C	283	54.280	140.781	16.169	1.00100.07	C
ATOM	5707	CG2	VAL	C	283	55.691	140.135	18.145	1.00100.07	C
ATOM	5708	C	VAL	C	283	53.714	137.913	15.699	1.00 88.20	C
ATOM	5709	O	VAL	C	283	52.506	137.821	15.460	1.00 88.20	C
ATOM	5710	N	GLY	C	284	54.648	137.582	14.812	1.00 54.85	C
ATOM	5711	CA	GLY	C	284	54.254	137.109	13.497	1.00 54.85	C
ATOM	5712	C	GLY	C	284	55.070	135.958	12.939	1.00 54.85	C
ATOM	5713	O	GLY	C	284	55.853	135.323	13.657	1.00 54.85	C
ATOM	5714	N	LEU	C	285	54.859	135.682	11.651	1.00 56.96	C
ATOM	5715	CA	LEU	C	285	55.566	134.615	10.938	1.00 56.96	C
ATOM	5716	CB	LEU	C	285	55.563	133.330	11.769	1.00 65.06	C
ATOM	5717	CG	LEU	C	285	56.924	132.701	12.073	1.00 65.06	C
ATOM	5718	CD1	LEU	C	285	56.706	131.522	12.993	1.00 65.06	C
ATOM	5719	CD2	LEU	C	285	57.614	132.256	10.793	1.00 65.06	C
ATOM	5720	C	LEU	C	285	54.972	134.331	9.554	1.00 56.96	C
ATOM	5721	O	LEU	C	285	54.267	135.165	8.979	1.00 56.96	C
ATOM	5722	N	SER	C	286	55.274	133.141	9.034	1.00100.07	C
ATOM	5723	CA	SER	C	286	54.802	132.695	7.723	1.00100.07	C
ATOM	5724	CB	SER	C	286	55.404	133.573	6.614	1.00 92.37	C
ATOM	5725	OG	SER	C	286	55.095	134.946	6.798	1.00 92.37	C
ATOM	5726	C	SER	C	286	55.214	131.237	7.485	1.00100.07	C
ATOM	5727	O	SER	C	286	56.104	130.971	6.680	1.00100.07	C
ATOM	5728	N	GLY	C	287	54.575	130.295	8.172	1.00 81.48	C
ATOM	5729	CA	GLY	C	287	54.944	128.903	7.985	1.00 81.48	C
ATOM	5730	C	GLY	C	287	56.365	128.649	8.468	1.00 81.48	C
ATOM	5731	O	GLY	C	287	56.907	129.455	9.227	1.00 81.48	C
ATOM	5732	N	ALA	C	288	56.969	127.546	8.018	1.00 69.71	C
ATOM	5733	CA	ALA	C	288	58.337	127.125	8.393	1.00 69.71	C
ATOM	5734	CB	ALA	C	288	58.997	126.395	7.223	1.00 54.40	C
ATOM	5735	C	ALA	C	288	59.338	128.138	8.952	1.00 69.71	C
ATOM	5736	O	ALA	C	288	59.283	129.335	8.681	1.00 69.71	C
ATOM	5737	N	THR	C	289	60.280	127.602	9.717	1.00100.07	C
ATOM	5738	CA	THR	C	289	61.337	128.373	10.358	1.00100.07	C
ATOM	5739	CB	THR	C	289	62.183	127.468	11.290	1.00 67.47	C
ATOM	5740	OG1	THR	C	289	61.347	126.892	12.301	1.00 67.47	C
ATOM	5741	CG2	THR	C	289	63.286	128.261	11.947	1.00 67.47	C
ATOM	5742	C	THR	C	289	62.284	128.994	9.337	1.00100.07	C
ATOM	5743	O	THR	C	289	62.572	128.384	8.307	1.00100.07	C
ATOM	5744	N	LEU	C	290	62.756	130.208	9.631	1.00 25.23	C
ATOM	5745	CA	LEU	C	290	63.710	130.912	8.770	1.00 25.23	C
ATOM	5746	CB	LEU	C	290	65.067	130.239	8.929	1.00100.07	C
ATOM	5747	CG	LEU	C	290	66.237	130.717	8.087	1.00100.07	C
ATOM	5748	CD1	LEU	C	290	66.668	132.100	8.534	1.00100.07	C
ATOM	5749	CD2	LEU	C	290	67.374	129.727	8.248	1.00100.07	C
ATOM	5750	C	LEU	C	290	63.332	130.942	7.287	1.00 25.23	C
ATOM	5751	O	LEU	C	290	63.176	129.891	6.671	1.00 25.23	C
ATOM	5752	N	VAL	C	291	63.195	132.131	6.703	1.00100.07	C
ATOM	5753	CA	VAL	C	291	62.858	132.202	5.282	1.00100.07	C
ATOM	5754	CB	VAL	C	291	62.652	133.652	4.797	1.00 71.19	C
ATOM	5755	CG1	VAL	C	291	62.031	133.642	3.403	1.00 71.19	C
ATOM	5756	CG2	VAL	C	291	61.752	134.407	5.767	1.00 71.19	C
ATOM	5757	C	VAL	C	291	64.031	131.577	4.532	1.00100.07	C
ATOM	5758	O	VAL	C	291	64.780	130.797	5.119	1.00100.07	C

ATOM	5759	N	ALA	C	292	64.215	131.905	3.254	1.00100.07	C
ATOM	5760	CA	ALA	C	292	65.321	131.299	2.513	1.00100.07	C
ATOM	5761	CB	ALA	C	292	65.063	129.801	2.355	1.00100.07	C
ATOM	5762	C	ALA	C	292	65.684	131.890	1.154	1.00100.07	C
ATOM	5763	O	ALA	C	292	65.429	133.061	0.867	1.00100.07	C
ATOM	5764	N	ALA	C	293	66.299	131.038	0.335	1.00100.07	C
ATOM	5765	CA	ALA	C	293	66.748	131.371	-1.008	1.00100.07	C
ATOM	5766	CB	ALA	C	293	66.909	130.084	-1.819	1.00 63.42	C
ATOM	5767	C	ALA	C	293	65.845	132.360	-1.755	1.00100.07	C
ATOM	5768	O	ALA	C	293	64.958	131.970	-2.524	1.00100.07	C
ATOM	5769	N	GLU	C	294	66.087	133.647	-1.523	1.00 99.91	C
ATOM	5770	CA	GLU	C	294	65.330	134.712	-2.168	1.00 99.91	C
ATOM	5771	CB	GLU	C	294	64.719	135.635	-1.119	1.00100.07	C
ATOM	5772	CG	GLU	C	294	63.552	135.032	-0.378	1.00100.07	C
ATOM	5773	CD	GLU	C	294	62.824	136.059	0.451	1.00100.07	C
ATOM	5774	OE1	GLU	C	294	61.710	135.751	0.933	1.00100.07	C
ATOM	5775	OE2	GLU	C	294	63.372	137.173	0.617	1.00100.07	C
ATOM	5776	C	GLU	C	294	66.284	135.504	-3.037	1.00 99.91	C
ATOM	5777	O	GLU	C	294	66.307	135.363	-4.261	1.00 99.91	C
ATOM	5778	N	ASP	C	295	67.065	136.348	-2.380	1.00 95.05	C
ATOM	5779	CA	ASP	C	295	68.054	137.153	-3.060	1.00 95.05	C
ATOM	5780	CB	ASP	C	295	68.041	138.580	-2.516	1.00100.07	C
ATOM	5781	CG	ASP	C	295	66.651	139.158	-2.449	1.00100.07	C
ATOM	5782	OD1	ASP	C	295	65.914	139.028	-3.448	1.00100.07	C
ATOM	5783	OD2	ASP	C	295	66.301	139.746	-1.402	1.00100.07	C
ATOM	5784	C	ASP	C	295	69.393	136.492	-2.758	1.00 95.05	C
ATOM	5785	O	ASP	C	295	70.361	136.646	-3.506	1.00 95.05	C
ATOM	5786	N	GLY	C	296	69.431	135.749	-1.653	1.00100.07	C
ATOM	5787	CA	GLY	C	296	70.645	135.064	-1.244	1.00100.07	C
ATOM	5788	C	GLY	C	296	70.417	134.198	-0.018	1.00100.07	C
ATOM	5789	O	GLY	C	296	69.728	133.180	-0.092	1.00100.07	C
ATOM	5790	N	ALA	C	297	70.989	134.597	1.114	1.00100.03	C
ATOM	5791	CA	ALA	C	297	70.835	133.835	2.348	1.00100.03	C
ATOM	5792	CB	ALA	C	297	71.762	134.378	3.425	1.00 32.08	C
ATOM	5793	C	ALA	C	297	69.397	133.907	2.822	1.00100.03	C
ATOM	5794	O	ALA	C	297	68.624	134.743	2.355	1.00100.03	C
ATOM	5795	N	ALA	C	298	69.040	133.030	3.750	1.00 52.31	C
ATOM	5796	CA	ALA	C	298	67.687	133.016	4.283	1.00 52.31	C
ATOM	5797	CB	ALA	C	298	67.437	131.684	4.964	1.00100.07	C
ATOM	5798	C	ALA	C	298	67.547	134.166	5.287	1.00 52.31	C
ATOM	5799	O	ALA	C	298	68.532	134.849	5.577	1.00 52.31	C
ATOM	5800	N	LYS	C	299	66.337	134.409	5.795	1.00 94.40	C
ATOM	5801	CA	LYS	C	299	66.154	135.450	6.815	1.00 94.40	C
ATOM	5802	CB	LYS	C	299	65.529	136.722	6.242	1.00 99.97	C
ATOM	5803	CG	LYS	C	299	65.443	137.853	7.288	1.00 99.97	C
ATOM	5804	CD	LYS	C	299	66.813	138.136	7.929	1.00 99.97	C
ATOM	5805	CE	LYS	C	299	66.751	139.280	8.934	1.00 99.97	C
ATOM	5806	NZ	LYS	C	299	68.101	139.620	9.472	1.00 99.97	C
ATOM	5807	C	LYS	C	299	65.301	134.950	7.981	1.00 94.40	C
ATOM	5808	O	LYS	C	299	64.147	134.557	7.797	1.00 94.40	C
ATOM	5809	N	ALA	C	300	65.879	134.975	9.181	1.00 78.57	C
ATOM	5810	CA	ALA	C	300	65.192	134.493	10.372	1.00 78.57	C
ATOM	5811	CB	ALA	C	300	65.948	134.906	11.623	1.00 37.12	C
ATOM	5812	C	ALA	C	300	63.764	134.987	10.450	1.00 78.57	C
ATOM	5813	O	ALA	C	300	63.427	136.021	9.870	1.00 78.57	C
ATOM	5814	N	GLU	C	301	62.934	134.233	11.168	1.00100.07	C
ATOM	5815	CA	GLU	C	301	61.527	134.575	11.354	1.00100.07	C
ATOM	5816	CB	GLU	C	301	60.739	134.290	10.072	1.00 96.06	C
ATOM	5817	CG	GLU	C	301	59.407	135.016	9.988	1.00 96.06	C
ATOM	5818	CD	GLU	C	301	58.773	134.905	8.616	1.00 96.06	C
ATOM	5819	OE1	GLU	C	301	59.454	135.229	7.621	1.00 96.06	C
ATOM	5820	OE2	GLU	C	301	57.595	134.501	8.533	1.00 96.06	C
ATOM	5821	C	GLU	C	301	60.944	133.776	12.522	1.00100.07	C
ATOM	5822	O	GLU	C	301	59.741	133.840	12.796	1.00100.07	C
ATOM	5823	N	VAL	C	302	61.814	133.030	13.204	1.00 33.68	C
ATOM	5824	CA	VAL	C	302	61.427	132.210	14.351	1.00 33.68	C
ATOM	5825	CB	VAL	C	302	61.028	130.774	13.930	1.00 36.28	C
ATOM	5826	CG1	VAL	C	302	60.952	129.861	15.149	1.00 36.28	C
ATOM	5827	CG2	VAL	C	302	59.693	130.796	13.227	1.00 36.28	C
ATOM	5828	C	VAL	C	302	62.552	132.083	15.352	1.00 33.68	C
ATOM	5829	O	VAL	C	302	62.309	132.106	16.547	1.00 33.68	C
ATOM	5830	N	PHE	C	303	63.782	131.965	14.868	1.00 65.41	C
ATOM	5831	CA	PHE	C	303	64.914	131.789	15.763	1.00 65.41	C
ATOM	5832	CB	PHE	C	303	66.206	131.736	14.960	1.00 34.09	C
ATOM	5833	CG	PHE	C	303	66.554	130.360	14.558	1.00 34.09	C
ATOM	5834	CD1	PHE	C	303	66.046	129.814	13.399	1.00 34.09	C
ATOM	5835	CD2	PHE	C	303	67.264	129.545	15.420	1.00 34.09	C
ATOM	5836	CE1	PHE	C	303	66.229	128.465	13.104	1.00 34.09	C
ATOM	5837	CE2	PHE	C	303	67.453	128.191	15.136	1.00 34.09	C
ATOM	5838	CZ	PHE	C	303	66.931	127.653	13.976	1.00 34.09	C
ATOM	5839	C	PHE	C	303	65.059	132.718	16.966	1.00 65.41	C
ATOM	5840	O	PHE	C	303	64.229	132.676	17.881	1.00 65.41	C
ATOM	5841	N	LEU	C	304	66.109	133.539	16.991	1.00 61.39	C
ATOM	5842	CA	LEU	C	304	66.317	134.450	18.115	1.00 61.39	C

ATOM	5843	CB	LEU	C	304	67.266	135.588	17.751	1.00	60.59	C
ATOM	5844	CG	LEU	C	304	66.753	136.531	16.671	1.00	60.59	C
ATOM	5845	CD1	LEU	C	304	67.520	137.823	16.693	1.00	60.59	C
ATOM	5846	CD2	LEU	C	304	66.864	135.837	15.338	1.00	60.59	C
ATOM	5847	C	LEU	C	304	65.011	135.032	18.633	1.00	61.39	C
ATOM	5848	O	LEU	C	304	64.885	135.278	19.825	1.00	61.39	C
ATOM	5849	N	PRO	C	305	64.027	135.289	17.747	1.00	59.52	C
ATOM	5850	CD	PRO	C	305	63.954	135.319	16.274	1.00	50.13	C
ATOM	5851	CA	PRO	C	305	62.800	135.836	18.333	1.00	59.52	C
ATOM	5852	CB	PRO	C	305	61.814	135.839	17.147	1.00	50.13	C
ATOM	5853	CG	PRO	C	305	62.515	135.048	16.032	1.00	50.13	C
ATOM	5854	C	PRO	C	305	62.356	134.970	19.525	1.00	59.52	C
ATOM	5855	O	PRO	C	305	61.641	135.421	20.426	1.00	59.52	C
ATOM	5856	N	THR	C	306	62.809	133.722	19.509	1.00	78.49	C
ATOM	5857	CA	THR	C	306	62.549	132.777	20.580	1.00	78.49	C
ATOM	5858	CB	THR	C	306	62.677	131.321	20.098	1.00	57.87	C
ATOM	5859	OG1	THR	C	306	61.564	131.001	19.263	1.00	57.87	C
ATOM	5860	CG2	THR	C	306	62.705	130.361	21.268	1.00	57.87	C
ATOM	5861	C	THR	C	306	63.685	133.060	21.539	1.00	78.49	C
ATOM	5862	O	THR	C	306	63.474	133.359	22.715	1.00	78.49	C
ATOM	5863	N	LEU	C	307	64.899	132.965	21.002	1.00	55.35	C
ATOM	5864	CA	LEU	C	307	66.120	133.218	21.753	1.00	55.35	C
ATOM	5865	CB	LEU	C	307	67.262	133.478	20.762	1.00	34.85	C
ATOM	5866	CG	LEU	C	307	68.700	133.765	21.181	1.00	34.85	C
ATOM	5867	CD1	LEU	C	307	69.181	132.720	22.176	1.00	34.85	C
ATOM	5868	CD2	LEU	C	307	69.568	133.797	19.932	1.00	34.85	C
ATOM	5869	C	LEU	C	307	65.831	134.438	22.615	1.00	55.35	C
ATOM	5870	O	LEU	C	307	66.080	134.435	23.820	1.00	55.35	C
ATOM	5871	N	ARG	C	308	65.280	135.471	21.983	1.00	44.73	C
ATOM	5872	CA	ARG	C	308	64.905	136.692	22.672	1.00	44.73	C
ATOM	5873	CB	ARG	C	308	64.143	137.610	21.726	1.00	95.84	C
ATOM	5874	CG	ARG	C	308	63.347	138.700	22.417	1.00	95.84	C
ATOM	5875	CD	ARG	C	308	62.874	139.715	21.399	1.00	95.84	C
ATOM	5876	NE	ARG	C	308	62.047	139.105	20.361	1.00	95.84	C
ATOM	5877	CZ	ARG	C	308	62.205	139.314	19.057	1.00	95.84	C
ATOM	5878	NH1	ARG	C	308	63.164	140.116	18.613	1.00	95.84	C
ATOM	5879	NH2	ARG	C	308	61.392	138.731	18.193	1.00	95.84	C
ATOM	5880	C	ARG	C	308	64.001	136.283	23.818	1.00	44.73	C
ATOM	5881	O	ARG	C	308	64.323	136.512	24.982	1.00	44.73	C
ATOM	5882	N	TYR	C	309	62.879	135.657	23.468	1.00	45.25	C
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ATOM	5927	CA	THR	C	314	65.520	133.903	32.413	1.00	37.84	C
ATOM	5928	CB	THR	C	314	66.764	133.782	31.528	1.00	42.48	C
ATOM	5929	OG1	THR	C	314	66.361	133.433	30.197	1.00	42.48	C
ATOM	5930	CG2	THR	C	314	67.693	132.702	32.057	1.00	42.48	C
ATOM	5931	C	THR	C	314	65.699	135.037	33.420	1.00	37.84	C
ATOM	5932	O	THR	C	314	66.753	135.168	34.053	1.00	37.84	C
ATOM	5933	N	ALA	C	315	64.645	135.851	33.541	1.00	99.46	C
ATOM	5934	CA	ALA	C	315	64.583	137.009	34.443	1.00	99.46	C
ATOM	5935	CB	ALA	C	315	65.806	137.909	34.228	1.00	90.21	C
ATOM	5936	C	ALA	C	315	63.286	137.816	34.214	1.00	99.46	C
ATOM	5937	O	ALA	C	315	62.393	137.820	35.062	1.00	99.46	C
ATOM	5938	N	GLY	C	316	63.212	138.480	33.056	1.00	46.37	C
ATOM	5939	CA	GLY	C	316	62.078	139.307	32.640	1.00	46.37	C
ATOM	5940	C	GLY	C	316	60.711	139.226	33.301	1.00	46.37	C
ATOM	5941	O	GLY	C	316	60.598	139.102	34.512	1.00	46.37	C
ATOM	5942	N	VAL	C	317	59.659	139.311	32.492	1.00	94.07	C
ATOM	5943	CA	VAL	C	317	58.294	139.273	33.007	1.00	94.07	C
ATOM	5944	CB	VAL	C	317	57.619	140.651	32.831	1.00	37.23	C
ATOM	5945	CG1	VAL	C	317	56.113	140.546	33.042	1.00	37.23	C
ATOM	5946	CG2	VAL	C	317	58.211	141.622	33.821	1.00	37.23	C
ATOM	5947	C	VAL	C	317	57.372	138.182	32.443	1.00	94.07	C
ATOM	5948	O	VAL	C	317	56.591	137.592	33.198	1.00	94.07	C
ATOM	5949	N	PRO	C	318	57.443	137.894	31.121	1.00	100.07	C
ATOM	5950	CD	PRO	C	318	58.415	138.347	30.106	1.00	86.80	C
ATOM	5951	CA	PRO	C	318	56.568	136.853	30.563	1.00	100.07	C
ATOM	5952	CB	PRO	C	318	56.898	136.884	29.072	1.00	86.80	C
ATOM	5953	CG	PRO	C	318	58.347	137.242	29.064	1.00	86.80	C
ATOM	5954	C	PRO	C	318	56.861	135.496	31.199	1.00	100.07	C
ATOM	5955	O	PRO	C	318	55.947	134.746	31.544	1.00	100.07	C
ATOM	5956	N	GLY	C	319	58.145	135.193	31.356	1.00	77.43	C
ATOM	5957	CA	GLY	C	319	58.533	133.938	31.964	1.00	77.43	C
ATOM	5958	C	GLY	C	319	57.845	132.752	31.331	1.00	77.43	C
ATOM	5959	O	GLY	C	319	58.306	132.243	30.310	1.00	77.43	C
ATOM	5960	N	HIS	C	320	56.727	132.328	31.914	1.00	37.14	C
ATOM	5961	CA	HIS	C	320	56.018	131.166	31.395	1.00	37.14	C
ATOM	5962	CB	HIS	C	320	55.453	131.420	29.988	1.00	100.07	C
ATOM	5963	CG	HIS	C	320	54.381	132.465	29.920	1.00	100.07	C
ATOM	5964	CD2	HIS	C	320	54.251	133.553	29.123	1.00	100.07	C
ATOM	5965	ND1	HIS	C	320	53.237	132.416	30.689	1.00	100.07	C
ATOM	5966	CE1	HIS	C	320	52.448	133.427	30.366	1.00	100.07	C
ATOM	5967	NE2	HIS	C	320	53.041	134.131	29.418	1.00	100.07	C
ATOM	5968	C	HIS	C	320	57.066	130.060	31.285	1.00	37.14	C
ATOM	5969	O	HIS	C	320	57.671	129.871	30.229	1.00	37.14	C
ATOM	5970	N	GLU	C	321	57.316	129.351	32.375	1.00	67.45	C
ATOM	5971	CA	GLU	C	321	58.284	128.273	32.322	1.00	67.45	C
ATOM	5972	CB	GLU	C	321	58.701	127.843	33.732	1.00	100.07	C
ATOM	5973	CG	GLU	C	321	59.628	128.825	34.461	1.00	100.07	C
ATOM	5974	CD	GLU	C	321	59.757	128.532	35.963	1.00	100.07	C
ATOM	5975	OE1	GLU	C	321	58.746	128.684	36.681	1.00	100.07	C
ATOM	5976	OE2	GLU	C	321	60.858	128.150	36.428	1.00	100.07	C
ATOM	5977	C	GLU	C	321	57.566	127.136	31.623	1.00	67.45	C
ATOM	5978	O	GLU	C	321	57.979	125.990	31.735	1.00	67.45	C
ATOM	5979	N	VAL	C	322	56.491	127.474	30.904	1.00	58.94	C
ATOM	5980	CA	VAL	C	322	55.655	126.512	30.168	1.00	58.94	C
ATOM	5981	CB	VAL	C	322	55.035	127.144	28.879	1.00	62.46	C
ATOM	5982	CG1	VAL	C	322	56.125	127.660	27.963	1.00	62.46	C
ATOM	5983	CG2	VAL	C	322	54.192	126.109	28.139	1.00	62.46	C
ATOM	5984	C	VAL	C	322	56.349	125.218	29.760	1.00	58.94	C
ATOM	5985	O	VAL	C	322	57.447	125.230	29.192	1.00	58.94	C
ATOM	5986	N	ALA	C	323	55.686	124.103	30.051	1.00	99.69	C
ATOM	5987	CA	ALA	C	323	56.207	122.778	29.729	1.00	99.69	C
ATOM	5988	CB	ALA	C	323	57.113	122.273	30.868	1.00	65.57	C
ATOM	5989	C	ALA	C	323	55.017	121.845	29.550	1.00	99.69	C
ATOM	5990	O	ALA	C	323	54.364	121.490	30.532	1.00	99.69	C
ATOM	5991	N	ASP	C	324	54.724	121.451	28.311	1.00	55.65	C
ATOM	5992	CA	ASP	C	324	53.584	120.581	28.076	1.00	55.65	C
ATOM	5993	CB	ASP	C	324	53.814	119.223	28.756	1.00	50.97	C
ATOM	5994	CG	ASP	C	324	52.518	118.577	29.260	1.00	50.97	C
ATOM	5995	OD1	ASP	C	324	51.850	119.149	30.142	1.00	50.97	C
ATOM	5996	OD2	ASP	C	324	52.163	117.486	28.784	1.00	50.97	C
ATOM	5997	C	ASP	C	324	52.351	121.272	28.659	1.00	55.65	C
ATOM	5998	O	ASP	C	324	51.217	120.823	28.457	1.00	55.65	C
ATOM	5999	N	ALA	C	325	52.592	122.374	29.370	1.00	100.07	C
ATOM	6000	CA	ALA	C	325	51.546	123.156	30.018	1.00	100.07	C
ATOM	6001	CB	ALA	C	325	50.528	123.623	28.982	1.00	100.07	C
ATOM	6002	C	ALA	C	325	50.859	122.316	31.092	1.00	100.07	C
ATOM	6003	O	ALA	C	325	50.878	122.644	32.284	1.00	100.07	C
ATOM	6004	N	ALA	C	326	50.252	121.227	30.636	1.00	100.07	C
ATOM	6005	CA	ALA	C	326	49.545	120.273	31.475	1.00	100.07	C
ATOM	6006	CB	ALA	C	326	48.507	120.981	32.345	1.00	100.07	C
ATOM	6007	C	ALA	C	326	48.861	119.364	30.479	1.00	100.07	C
ATOM	6008	O	ALA	C	326	47.672	119.090	30.602	1.00	100.07	C
ATOM	6009	N	ALA	C	327	49.618	118.909	29.483	1.00	83.77	C
ATOM	6010	CA	ALA	C	327	49.062	118.059	28.439	1.00	83.77	C

ATOM	6011	CB	ALA	C	327	48.566	116.742	29.035	1.00	100.07	C
ATOM	6012	C	ALA	C	327	47.896	118.882	27.915	1.00	83.77	C
ATOM	6013	O	ALA	C	327	46.886	118.358	27.413	1.00	83.77	C
ATOM	6014	N	LEU	C	328	48.066	120.193	28.049	1.00	42.59	C
ATOM	6015	CA	LEU	C	328	47.050	121.145	27.666	1.00	42.59	C
ATOM	6016	CB	LEU	C	328	47.357	122.477	28.361	1.00	39.91	C
ATOM	6017	CG	LEU	C	328	46.236	123.450	28.735	1.00	39.91	C
ATOM	6018	CD1	LEU	C	328	44.939	122.754	29.142	1.00	39.91	C
ATOM	6019	CD2	LEU	C	328	46.753	124.267	29.879	1.00	39.91	C
ATOM	6020	C	LEU	C	328	46.947	121.304	26.152	1.00	42.59	C
ATOM	6021	O	LEU	C	328	46.797	120.320	25.413	1.00	42.59	C
ATOM	6022	N	GLY	C	329	46.991	122.551	25.694	1.00	100.07	C
ATOM	6023	CA	GLY	C	329	46.926	122.817	24.270	1.00	100.07	C
ATOM	6024	C	GLY	C	329	48.262	122.387	23.719	1.00	100.07	C
ATOM	6025	O	GLY	C	329	48.749	122.908	22.718	1.00	100.07	C
ATOM	6026	N	ASN	C	330	48.860	121.432	24.418	1.00	28.65	C
ATOM	6027	CA	ASN	C	330	50.146	120.883	24.055	1.00	28.65	C
ATOM	6028	CB	ASN	C	330	51.213	121.388	25.021	1.00	44.56	C
ATOM	6029	CG	ASN	C	330	51.338	122.912	25.021	1.00	44.56	C
ATOM	6030	OD1	ASN	C	330	51.807	123.496	26.001	1.00	44.56	C
ATOM	6031	ND2	ASN	C	330	50.935	123.557	23.926	1.00	44.56	C
ATOM	6032	C	ASN	C	330	50.033	119.363	24.116	1.00	28.65	C
ATOM	6033	O	ASN	C	330	50.403	118.721	25.109	1.00	28.65	C
ATOM	6034	N	ALA	C	331	49.503	118.802	23.034	1.00	20.61	C
ATOM	6035	CA	ALA	C	331	49.316	117.367	22.934	1.00	20.61	C
ATOM	6036	CB	ALA	C	331	48.399	116.895	24.066	1.00	5.07	C
ATOM	6037	C	ALA	C	331	48.740	116.969	21.565	1.00	20.61	C
ATOM	6038	O	ALA	C	331	47.548	116.694	21.429	1.00	20.61	C
ATOM	6039	N	ALA	C	332	49.589	116.930	20.547	1.00	100.07	C
ATOM	6040	CA	ALA	C	332	49.106	116.575	19.218	1.00	100.07	C
ATOM	6041	CB	ALA	C	332	50.079	117.058	18.141	1.00	71.55	C
ATOM	6042	C	ALA	C	332	48.852	115.081	19.061	1.00	100.07	C
ATOM	6043	O	ALA	C	332	49.709	114.250	19.357	1.00	100.07	C
ATOM	6044	N	ILE	C	333	47.652	114.759	18.594	1.00	69.05	C
ATOM	6045	CA	ILE	C	333	47.227	113.387	18.361	1.00	69.05	C
ATOM	6046	CB	ILE	C	333	45.710	113.268	18.608	1.00	45.11	C
ATOM	6047	CG2	ILE	C	333	45.224	111.888	18.289	1.00	45.11	C
ATOM	6048	CG1	ILE	C	333	45.407	113.544	20.075	1.00	45.11	C
ATOM	6049	CD	ILE	C	333	45.688	112.362	20.972	1.00	45.11	C
ATOM	6050	C	ILE	C	333	47.546	112.994	16.916	1.00	69.05	C
ATOM	6051	O	ILE	C	333	47.965	113.823	16.103	1.00	69.05	C
ATOM	6052	N	ARG	C	334	47.368	111.719	16.610	1.00	26.87	C
ATOM	6053	CA	ARG	C	334	47.610	111.214	15.270	1.00	26.87	C
ATOM	6054	CB	ARG	C	334	49.059	110.751	15.117	1.00	28.56	C
ATOM	6055	CG	ARG	C	334	49.983	111.909	14.867	1.00	28.56	C
ATOM	6056	CD	ARG	C	334	51.142	111.584	13.941	1.00	28.56	C
ATOM	6057	NE	ARG	C	334	52.127	110.690	14.528	1.00	28.56	C
ATOM	6058	CZ	ARG	C	334	53.219	110.295	13.884	1.00	28.56	C
ATOM	6059	NH1	ARG	C	334	53.451	110.722	12.651	1.00	28.56	C
ATOM	6060	NH2	ARG	C	334	54.069	109.453	14.453	1.00	28.56	C
ATOM	6061	C	ARG	C	334	46.668	110.084	14.910	1.00	26.87	C
ATOM	6062	O	ARG	C	334	46.963	108.913	15.132	1.00	26.87	C
ATOM	6063	N	THR	C	335	45.513	110.437	14.375	1.00	43.35	C
ATOM	6064	CA	THR	C	335	44.591	109.407	13.977	1.00	43.35	C
ATOM	6065	CB	THR	C	335	43.301	110.013	13.380	1.00	44.39	C
ATOM	6066	OG1	THR	C	335	43.574	111.329	12.886	1.00	44.39	C
ATOM	6067	CG2	THR	C	335	42.208	110.089	14.438	1.00	44.39	C
ATOM	6068	C	THR	C	335	45.331	108.568	12.931	1.00	43.35	C
ATOM	6069	O	THR	C	335	46.145	109.092	12.162	1.00	43.35	C
ATOM	6070	N	VAL	C	336	45.075	107.262	12.943	1.00	9.90	C
ATOM	6071	CA	VAL	C	336	45.686	106.327	12.011	1.00	9.90	C
ATOM	6072	CB	VAL	C	336	44.735	105.196	11.684	1.00	10.63	C
ATOM	6073	CG1	VAL	C	336	45.434	104.171	10.854	1.00	10.63	C
ATOM	6074	CG2	VAL	C	336	44.197	104.601	12.952	1.00	10.63	C
ATOM	6075	C	VAL	C	336	46.002	107.039	10.722	1.00	9.90	C
ATOM	6076	O	VAL	C	336	47.115	106.971	10.223	1.00	9.90	C
ATOM	6077	N	GLY	C	337	45.002	107.736	10.195	1.00	33.04	C
ATOM	6078	CA	GLY	C	337	45.183	108.453	8.951	1.00	33.04	C
ATOM	6079	C	GLY	C	337	46.562	109.058	8.856	1.00	33.04	C
ATOM	6080	O	GLY	C	337	47.302	108.818	7.904	1.00	33.04	C
ATOM	6081	N	GLU	C	338	46.904	109.837	9.871	1.00	39.99	C
ATOM	6082	CA	GLU	C	338	48.191	110.493	9.937	1.00	39.99	C
ATOM	6083	CB	GLU	C	338	48.255	111.322	11.226	1.00	46.47	C
ATOM	6084	CG	GLU	C	338	48.869	112.717	11.109	1.00	46.47	C
ATOM	6085	CD	GLU	C	338	48.639	113.553	12.368	1.00	46.47	C
ATOM	6086	OE1	GLU	C	338	49.372	114.537	12.587	1.00	46.47	C
ATOM	6087	OE2	GLU	C	338	47.716	113.235	13.146	1.00	46.47	C
ATOM	6088	C	GLU	C	338	49.319	109.445	9.889	1.00	39.99	C
ATOM	6089	O	GLU	C	338	50.140	109.477	8.973	1.00	39.99	C
ATOM	6090	N	LEU	C	339	49.342	108.508	10.846	1.00	16.83	C
ATOM	6091	CA	LEU	C	339	50.393	107.475	10.909	1.00	16.83	C
ATOM	6092	CB	LEU	C	339	50.096	106.439	12.002	1.00	9.52	C
ATOM	6093	CG	LEU	C	339	49.716	106.874	13.429	1.00	9.52	C
ATOM	6094	CD1	LEU	C	339	48.216	107.139	13.435	1.00	9.52	C

ATOM	6095	CD2	LEU	C	339	50.064	105.799	14.488	1.00	9.52	C
ATOM	6096	C	LEU	C	339	50.606	106.724	9.597	1.00	16.83	C
ATOM	6097	O	LEU	C	339	51.731	106.624	9.101	1.00	16.83	C
ATOM	6098	N	MET	C	340	49.522	106.175	9.053	1.00	35.16	C
ATOM	6099	CA	MET	C	340	49.557	105.431	7.795	1.00	35.16	C
ATOM	6100	CB	MET	C	340	48.144	104.929	7.466	1.00	52.11	C
ATOM	6101	CG	MET	C	340	47.974	104.323	6.086	1.00	52.11	C
ATOM	6102	SD	MET	C	340	48.305	105.523	4.786	1.00	52.11	C
ATOM	6103	CE	MET	C	340	47.118	106.781	5.204	1.00	52.11	C
ATOM	6104	C	MET	C	340	50.076	106.365	6.702	1.00	35.16	C
ATOM	6105	O	MET	C	340	50.874	105.978	5.841	1.00	35.16	C
ATOM	6106	N	ALA	C	341	49.598	107.600	6.742	1.00	35.96	C
ATOM	6107	CA	ALA	C	341	50.016	108.602	5.791	1.00	35.96	C
ATOM	6108	CB	ALA	C	341	49.380	109.924	6.127	1.00	14.91	C
ATOM	6109	C	ALA	C	341	51.529	108.713	5.880	1.00	35.96	C
ATOM	6110	O	ALA	C	341	52.225	108.387	4.925	1.00	35.96	C
ATOM	6111	N	ASP	C	342	52.035	109.163	7.029	1.00	42.69	C
ATOM	6112	CA	ASP	C	342	53.475	109.309	7.235	1.00	42.69	C
ATOM	6113	CB	ASP	C	342	53.801	109.389	8.727	1.00	55.31	C
ATOM	6114	CG	ASP	C	342	53.325	110.682	9.358	1.00	55.31	C
ATOM	6115	OD1	ASP	C	342	53.634	111.752	8.798	1.00	55.31	C
ATOM	6116	OD2	ASP	C	342	52.650	110.635	10.411	1.00	55.31	C
ATOM	6117	C	ASP	C	342	54.276	108.169	6.613	1.00	42.69	C
ATOM	6118	O	ASP	C	342	55.328	108.395	6.004	1.00	42.69	C
ATOM	6119	N	GLN	C	343	53.774	106.947	6.763	1.00	63.10	C
ATOM	6120	CA	GLN	C	343	54.445	105.777	6.212	1.00	63.10	C
ATOM	6121	CB	GLN	C	343	53.656	104.520	6.536	1.00	61.98	C
ATOM	6122	CG	GLN	C	343	54.535	103.434	7.111	1.00	61.98	C
ATOM	6123	CD	GLN	C	343	55.534	103.969	8.134	1.00	61.98	C
ATOM	6124	OE1	GLN	C	343	55.155	104.570	9.150	1.00	61.98	C
ATOM	6125	NE2	GLN	C	343	56.821	103.754	7.866	1.00	61.98	C
ATOM	6126	C	GLN	C	343	54.616	105.921	4.713	1.00	63.10	C
ATOM	6127	O	GLN	C	343	55.556	105.392	4.137	1.00	63.10	C
ATOM	6128	N	PHE	C	344	53.689	106.628	4.083	1.00	69.38	C
ATOM	6129	CA	PHE	C	344	53.780	106.884	2.657	1.00	69.38	C
ATOM	6130	CB	PHE	C	344	52.519	107.573	2.141	1.00	29.38	C
ATOM	6131	CG	PHE	C	344	51.854	106.863	1.006	1.00	29.38	C
ATOM	6132	CD1	PHE	C	344	50.631	107.304	0.532	1.00	29.38	C
ATOM	6133	CD2	PHE	C	344	52.417	105.722	0.449	1.00	29.38	C
ATOM	6134	CE1	PHE	C	344	49.971	106.616	-0.476	1.00	29.38	C
ATOM	6135	CE2	PHE	C	344	51.766	105.018	-0.564	1.00	29.38	C
ATOM	6136	CZ	PHE	C	344	50.540	105.464	-1.029	1.00	29.38	C
ATOM	6137	C	PHE	C	344	54.935	107.858	2.545	1.00	69.38	C
ATOM	6138	O	PHE	C	344	55.911	107.602	1.839	1.00	69.38	C
ATOM	6139	N	ARG	C	345	54.803	108.983	3.252	1.00	63.64	C
ATOM	6140	CA	ARG	C	345	55.827	110.016	3.260	1.00	63.64	C
ATOM	6141	CB	ARG	C	345	55.636	110.950	4.456	1.00	50.37	C
ATOM	6142	CG	ARG	C	345	54.277	111.641	4.500	1.00	50.37	C
ATOM	6143	CD	ARG	C	345	53.992	112.212	5.892	1.00	50.37	C
ATOM	6144	NE	ARG	C	345	52.564	112.431	6.141	1.00	50.37	C
ATOM	6145	CZ	ARG	C	345	51.892	113.525	5.795	1.00	50.37	C
ATOM	6146	NH1	ARG	C	345	52.507	114.526	5.179	1.00	50.37	C
ATOM	6147	NH2	ARG	C	345	50.602	113.623	6.076	1.00	50.37	C
ATOM	6148	C	ARG	C	345	57.140	109.270	3.375	1.00	63.64	C
ATOM	6149	O	ARG	C	345	58.081	109.529	2.630	1.00	63.64	C
ATOM	6150	N	VAL	C	346	57.179	108.313	4.297	1.00	64.40	C
ATOM	6151	CA	VAL	C	346	58.367	107.494	4.507	1.00	64.40	C
ATOM	6152	CB	VAL	C	346	58.214	106.589	5.743	1.00	100.07	C
ATOM	6153	CG1	VAL	C	346	59.487	105.781	5.948	1.00	100.07	C
ATOM	6154	CG2	VAL	C	346	57.908	107.423	6.970	1.00	100.07	C
ATOM	6155	C	VAL	C	346	58.600	106.588	3.298	1.00	64.40	C
ATOM	6156	O	VAL	C	346	59.740	106.331	2.906	1.00	64.40	C
ATOM	6157	N	GLY	C	347	57.505	106.096	2.725	1.00	21.03	C
ATOM	6158	CA	GLY	C	347	57.595	105.221	1.579	1.00	21.03	C
ATOM	6159	C	GLY	C	347	58.234	105.932	0.414	1.00	21.03	C
ATOM	6160	O	GLY	C	347	59.384	105.656	0.064	1.00	21.03	C
ATOM	6161	N	LEU	C	348	57.481	106.848	-0.187	1.00	55.93	C
ATOM	6162	CA	LEU	C	348	57.953	107.615	-1.327	1.00	55.93	C
ATOM	6163	CB	LEU	C	348	57.077	108.850	-1.524	1.00	33.94	C
ATOM	6164	CG	LEU	C	348	55.662	108.617	-2.052	1.00	33.94	C
ATOM	6165	CD1	LEU	C	348	54.842	107.776	-1.083	1.00	33.94	C
ATOM	6166	CD2	LEU	C	348	55.004	109.971	-2.263	1.00	33.94	C
ATOM	6167	C	LEU	C	348	59.402	108.030	-1.116	1.00	55.93	C
ATOM	6168	O	LEU	C	348	60.152	108.230	-2.071	1.00	55.93	C
ATOM	6169	N	ALA	C	349	59.789	108.147	0.151	1.00	98.46	C
ATOM	6170	CA	ALA	C	349	61.149	108.530	0.516	1.00	98.46	C
ATOM	6171	CB	ALA	C	349	61.304	108.533	2.039	1.00	100.07	C
ATOM	6172	C	ALA	C	349	62.175	107.593	-0.113	1.00	98.46	C
ATOM	6173	O	ALA	C	349	63.357	107.926	-0.209	1.00	98.46	C
ATOM	6174	N	ARG	C	350	61.726	106.417	-0.535	1.00	29.60	C
ATOM	6175	CA	ARG	C	350	62.637	105.482	-1.159	1.00	29.60	C
ATOM	6176	CB	ARG	C	350	62.231	104.039	-0.870	1.00	100.07	C
ATOM	6177	CG	ARG	C	350	63.181	103.028	-1.506	1.00	100.07	C
ATOM	6178	CD	ARG	C	350	62.729	101.594	-1.289	1.00	100.07	C

ATOM	6179	NE	ARG	C	350	63.506	100.653	-2.091	1.00100.07	C
ATOM	6180	CZ	ARG	C	350	63.147	99.395	-2.328	1.00100.07	C
ATOM	6181	NH1	ARG	C	350	62.011	98.917	-1.825	1.00100.07	C
ATOM	6182	NH2	ARG	C	350	63.931	98.616	-3.068	1.00100.07	C
ATOM	6183	C	ARG	C	350	62.722	105.701	-2.669	1.00 29.60	C
ATOM	6184	O	ARG	C	350	63.713	106.255	-3.151	1.00 29.60	C
ATOM	6185	N	LEU	C	351	61.697	105.282	-3.413	1.00 85.61	C
ATOM	6186	CA	LEU	C	351	61.717	105.445	-4.867	1.00 85.61	C
ATOM	6187	CB	LEU	C	351	60.315	105.339	-5.477	1.00 22.25	C
ATOM	6188	CG	LEU	C	351	59.479	106.627	-5.477	1.00 22.25	C
ATOM	6189	CD1	LEU	C	351	58.370	106.525	-6.500	1.00 22.25	C
ATOM	6190	CD2	LEU	C	351	58.915	106.879	-4.091	1.00 22.25	C
ATOM	6191	C	LEU	C	351	62.285	106.813	-5.203	1.00 85.61	C
ATOM	6192	O	LEU	C	351	62.921	106.992	-6.239	1.00 85.61	C
ATOM	6193	N	ALA	C	352	62.033	107.781	-4.325	1.00 59.25	C
ATOM	6194	CA	ALA	C	352	62.541	109.128	-4.523	1.00 59.25	C
ATOM	6195	CB	ALA	C	352	62.459	109.908	-3.223	1.00100.07	C
ATOM	6196	C	ALA	C	352	63.990	108.975	-4.966	1.00 59.25	C
ATOM	6197	O	ALA	C	352	64.339	109.302	-6.098	1.00 59.25	C
ATOM	6198	N	ARG	C	353	64.825	108.455	-4.070	1.00 45.38	C
ATOM	6199	CA	ARG	C	353	66.228	108.234	-4.382	1.00 45.38	C
ATOM	6200	CB	ARG	C	353	66.905	107.463	-3.255	1.00100.07	C
ATOM	6201	CG	ARG	C	353	68.038	108.201	-2.586	1.00100.07	C
ATOM	6202	CD	ARG	C	353	67.540	109.352	-1.730	1.00100.07	C
ATOM	6203	NE	ARG	C	353	68.628	109.920	-0.938	1.00100.07	C
ATOM	6204	CZ	ARG	C	353	68.484	110.884	-0.035	1.00100.07	C
ATOM	6205	NH1	ARG	C	353	67.285	111.403	0.204	1.00100.07	C
ATOM	6206	NH2	ARG	C	353	69.543	111.325	0.633	1.00100.07	C
ATOM	6207	C	ARG	C	353	66.252	107.394	-5.644	1.00 45.38	C
ATOM	6208	O	ARG	C	353	67.009	107.659	-6.575	1.00 45.38	C
ATOM	6209	N	GLY	C	354	65.397	106.379	-5.661	1.00 74.85	C
ATOM	6210	CA	GLY	C	354	65.314	105.487	-6.799	1.00 74.85	C
ATOM	6211	C	GLY	C	354	64.899	106.175	-8.082	1.00 74.85	C
ATOM	6212	O	GLY	C	354	64.875	105.542	-9.134	1.00 74.85	C
ATOM	6213	N	VAL	C	355	64.550	107.457	-8.018	1.00 59.81	C
ATOM	6214	CA	VAL	C	355	64.167	108.164	-9.236	1.00 59.81	C
ATOM	6215	CB	VAL	C	355	63.149	109.304	-8.970	1.00 34.18	C
ATOM	6216	CG1	VAL	C	355	63.878	110.644	-8.773	1.00 34.18	C
ATOM	6217	CG2	VAL	C	355	62.153	109.374	-10.120	1.00 34.18	C
ATOM	6218	C	VAL	C	355	65.446	108.739	-9.842	1.00 59.81	C
ATOM	6219	O	VAL	C	355	65.691	108.595	-11.035	1.00 59.81	C
ATOM	6220	N	ARG	C	356	66.268	109.382	-9.018	1.00 74.77	C
ATOM	6221	CA	ARG	C	356	67.523	109.916	-9.513	1.00 74.77	C
ATOM	6222	CB	ARG	C	356	68.282	110.649	-8.398	1.00100.07	C
ATOM	6223	CG	ARG	C	356	67.593	111.935	-7.890	1.00100.07	C
ATOM	6224	CD	ARG	C	356	68.564	112.821	-7.076	1.00100.07	C
ATOM	6225	NE	ARG	C	356	67.955	114.049	-6.546	1.00100.07	C
ATOM	6226	CZ	ARG	C	356	68.616	114.979	-5.857	1.00100.07	C
ATOM	6227	NH1	ARG	C	356	69.910	114.833	-5.612	1.00100.07	C
ATOM	6228	NH2	ARG	C	356	67.985	116.055	-5.405	1.00100.07	C
ATOM	6229	C	ARG	C	356	68.304	108.693	-10.014	1.00 74.77	C
ATOM	6230	O	ARG	C	356	69.253	108.813	-10.784	1.00 74.77	C
ATOM	6231	N	GLU	C	357	67.869	107.514	-9.575	1.00 67.64	C
ATOM	6232	CA	GLU	C	357	68.463	106.239	-9.971	1.00 67.64	C
ATOM	6233	CB	GLU	C	357	67.613	105.082	-9.416	1.00 99.66	C
ATOM	6234	CG	GLU	C	357	67.872	103.684	-10.033	1.00 99.66	C
ATOM	6235	CD	GLU	C	357	66.706	103.150	-10.879	1.00 99.66	C
ATOM	6236	OE1	GLU	C	357	66.743	101.958	-11.258	1.00 99.66	C
ATOM	6237	OE2	GLU	C	357	65.760	103.914	-11.166	1.00 99.66	C
ATOM	6238	C	GLU	C	357	68.533	106.125	-11.491	1.00 67.64	C
ATOM	6239	O	GLU	C	357	69.540	106.482	-12.109	1.00 67.64	C
ATOM	6240	N	ALA	C	358	67.452	105.613	-12.078	1.00 90.74	C
ATOM	6241	CA	ALA	C	358	67.349	105.437	-13.520	1.00 90.74	C
ATOM	6242	CB	ALA	C	358	66.112	104.623	-13.861	1.00 25.37	C
ATOM	6243	C	ALA	C	358	67.267	106.812	-14.156	1.00 90.74	C
ATOM	6244	O	ALA	C	358	67.279	106.951	-15.376	1.00 90.74	C
ATOM	6245	N	MET	C	359	67.167	107.826	-13.304	1.00 78.14	C
ATOM	6246	CA	MET	C	359	67.112	109.204	-13.756	1.00 78.14	C
ATOM	6247	CB	MET	C	359	67.267	110.160	-12.568	1.00 74.02	C
ATOM	6248	CG	MET	C	359	66.745	111.570	-12.777	1.00 74.02	C
ATOM	6249	SD	MET	C	359	64.977	111.670	-12.459	1.00 74.02	C
ATOM	6250	CE	MET	C	359	64.287	111.107	-14.064	1.00 74.02	C
ATOM	6251	C	MET	C	359	68.329	109.323	-14.655	1.00 78.14	C
ATOM	6252	O	MET	C	359	68.242	109.112	-15.864	1.00 78.14	C
ATOM	6253	N	VAL	C	360	69.471	109.627	-14.043	1.00 84.79	C
ATOM	6254	CA	VAL	C	360	70.715	109.782	-14.776	1.00 84.79	C
ATOM	6255	CB	VAL	C	360	71.879	110.153	-13.848	1.00 40.83	C
ATOM	6256	CG1	VAL	C	360	73.122	110.454	-14.678	1.00 40.83	C
ATOM	6257	CG2	VAL	C	360	71.508	111.351	-13.005	1.00 40.83	C
ATOM	6258	C	VAL	C	360	71.068	108.493	-15.490	1.00 84.79	C
ATOM	6259	O	VAL	C	360	70.723	108.311	-16.658	1.00 84.79	C
ATOM	6260	N	MET	C	361	71.765	107.601	-14.794	1.00 64.36	C
ATOM	6261	CA	MET	C	361	72.144	106.333	-15.392	1.00 64.36	C
ATOM	6262	CB	MET	C	361	72.657	105.380	-14.315	1.00100.07	C

ATOM	6263	CG	MET	C	361	72.980	103.976	-14.808	1.00100.07	C
ATOM	6264	SD	MET	C	361	71.516	103.001	-15.211	1.00100.07	C
ATOM	6265	CE	MET	C	361	71.038	102.450	-13.616	1.00100.07	C
ATOM	6266	C	MET	C	361	70.890	105.771	-16.042	1.00 64.36	C
ATOM	6267	O	MET	C	361	69.960	105.354	-15.345	1.00 64.36	C
ATOM	6268	N	GLY	C	362	70.853	105.783	-17.374	1.00 40.07	C
ATOM	6269	CA	GLY	C	362	69.687	105.269	-18.075	1.00 40.07	C
ATOM	6270	C	GLY	C	362	69.531	105.835	-19.468	1.00 40.07	C
ATOM	6271	O	GLY	C	362	70.290	106.724	-19.856	1.00 40.07	C
ATOM	6272	N	SER	C	363	68.543	105.326	-20.209	1.00 66.93	C
ATOM	6273	CA	SER	C	363	68.272	105.750	-21.590	1.00 66.93	C
ATOM	6274	CB	SER	C	363	67.563	104.629	-22.355	1.00100.07	C
ATOM	6275	OG	SER	C	363	67.247	105.034	-23.676	1.00100.07	C
ATOM	6276	C	SER	C	363	67.432	107.021	-21.678	1.00 66.93	C
ATOM	6277	O	SER	C	363	66.202	106.966	-21.709	1.00 66.93	C
ATOM	6278	N	PRO	C	364	68.097	108.181	-21.773	1.00 63.54	C
ATOM	6279	CD	PRO	C	364	69.500	108.289	-22.209	1.00 93.74	C
ATOM	6280	CA	PRO	C	364	67.436	109.487	-21.856	1.00 63.54	C
ATOM	6281	CB	PRO	C	364	68.535	110.390	-22.425	1.00 93.74	C
ATOM	6282	CG	PRO	C	364	69.431	109.431	-23.172	1.00 93.74	C
ATOM	6283	C	PRO	C	364	66.124	109.562	-22.651	1.00 63.54	C
ATOM	6284	O	PRO	C	364	65.233	110.345	-22.302	1.00 63.54	C
ATOM	6285	N	ASP	C	365	65.998	108.754	-23.704	1.00 99.87	C
ATOM	6286	CA	ASP	C	365	64.785	108.774	-24.525	1.00 99.87	C
ATOM	6287	CB	ASP	C	365	65.149	108.753	-26.020	1.00100.07	C
ATOM	6288	CG	ASP	C	365	64.028	109.302	-26.917	1.00100.07	C
ATOM	6289	OD1	ASP	C	365	64.179	109.263	-28.161	1.00100.07	C
ATOM	6290	OD2	ASP	C	365	62.999	109.781	-26.385	1.00100.07	C
ATOM	6291	C	ASP	C	365	63.842	107.610	-24.204	1.00 99.87	C
ATOM	6292	O	ASP	C	365	62.645	107.666	-24.505	1.00 99.87	C
ATOM	6293	N	THR	C	366	64.376	106.558	-23.595	1.00100.07	C
ATOM	6294	CA	THR	C	366	63.553	105.408	-23.247	1.00100.07	C
ATOM	6295	CB	THR	C	366	64.290	104.088	-23.523	1.00 81.24	C
ATOM	6296	OG1	THR	C	366	64.670	104.036	-24.905	1.00 81.24	C
ATOM	6297	CG2	THR	C	366	63.386	102.900	-23.206	1.00 81.24	C
ATOM	6298	C	THR	C	366	63.158	105.463	-21.780	1.00100.07	C
ATOM	6299	O	THR	C	366	62.175	104.847	-21.369	1.00100.07	C
ATOM	6300	N	LEU	C	367	63.933	106.208	-20.999	1.00 87.14	C
ATOM	6301	CA	LEU	C	367	63.670	106.360	-19.578	1.00 87.14	C
ATOM	6302	CB	LEU	C	367	64.690	107.305	-18.942	1.00100.07	C
ATOM	6303	CG	LEU	C	367	66.110	106.775	-18.731	1.00100.07	C
ATOM	6304	CD1	LEU	C	367	67.010	107.904	-18.244	1.00100.07	C
ATOM	6305	CD2	LEU	C	367	66.086	105.624	-17.730	1.00100.07	C
ATOM	6306	C	LEU	C	367	62.273	106.911	-19.367	1.00 87.14	C
ATOM	6307	O	LEU	C	367	62.079	108.122	-19.331	1.00 87.14	C
ATOM	6308	N	THR	C	368	61.303	106.012	-19.245	1.00 88.45	C
ATOM	6309	CA	THR	C	368	59.918	106.400	-19.024	1.00 88.45	C
ATOM	6310	CB	THR	C	368	58.979	105.804	-20.094	1.00 85.27	C
ATOM	6311	OG1	THR	C	368	58.938	104.378	-19.960	1.00 85.27	C
ATOM	6312	CG2	THR	C	368	59.467	106.177	-21.496	1.00 85.27	C
ATOM	6313	C	THR	C	368	59.495	105.898	-17.654	1.00 88.45	C
ATOM	6314	O	THR	C	368	60.098	104.966	-17.118	1.00 88.45	C
ATOM	6315	N	PRO	C	369	58.464	106.514	-17.054	1.00100.07	C
ATOM	6316	CD	PRO	C	369	57.546	107.569	-17.523	1.00 36.65	C
ATOM	6317	CA	PRO	C	369	58.081	106.002	-15.735	1.00100.07	C
ATOM	6318	CB	PRO	C	369	56.970	106.960	-15.296	1.00 36.65	C
ATOM	6319	CG	PRO	C	369	56.378	107.440	-16.579	1.00 36.65	C
ATOM	6320	C	PRO	C	369	57.631	104.546	-15.865	1.00100.07	C
ATOM	6321	O	PRO	C	369	57.699	103.970	-16.951	1.00100.07	C
ATOM	6322	N	ALA	C	370	57.190	103.942	-14.771	1.00 74.49	C
ATOM	6323	CA	ALA	C	370	56.755	102.550	-14.810	1.00 74.49	C
ATOM	6324	CB	ALA	C	370	55.466	102.422	-15.599	1.00100.07	C
ATOM	6325	C	ALA	C	370	57.839	101.685	-15.438	1.00 74.49	C
ATOM	6326	O	ALA	C	370	57.616	100.517	-15.754	1.00 74.49	C
ATOM	6327	N	LYS	C	371	59.009	102.285	-15.630	1.00 40.41	C
ATOM	6328	CA	LYS	C	371	60.170	101.609	-16.193	1.00 40.41	C
ATOM	6329	CB	LYS	C	371	60.349	101.946	-17.681	1.00 65.26	C
ATOM	6330	CG	LYS	C	371	59.268	101.393	-18.604	1.00 65.26	C
ATOM	6331	CD	LYS	C	371	59.603	101.655	-20.071	1.00 65.26	C
ATOM	6332	CE	LYS	C	371	58.542	101.087	-21.005	1.00 65.26	C
ATOM	6333	NZ	LYS	C	371	57.221	101.740	-20.824	1.00 65.26	C
ATOM	6334	C	LYS	C	371	61.325	102.177	-15.396	1.00 40.41	C
ATOM	6335	O	LYS	C	371	62.455	101.674	-15.444	1.00 40.41	C
ATOM	6336	N	LEU	C	372	61.005	103.244	-14.667	1.00 98.56	C
ATOM	6337	CA	LEU	C	372	61.951	103.960	-13.825	1.00 98.56	C
ATOM	6338	CB	LEU	C	372	61.964	105.444	-14.198	1.00 84.70	C
ATOM	6339	CG	LEU	C	372	63.228	106.258	-13.899	1.00 84.70	C
ATOM	6340	CD1	LEU	C	372	62.983	107.709	-14.289	1.00 84.70	C
ATOM	6341	CD2	LEU	C	372	63.607	106.149	-12.433	1.00 84.70	C
ATOM	6342	C	LEU	C	372	61.471	103.819	-12.393	1.00 98.56	C
ATOM	6343	O	LEU	C	372	62.230	104.023	-11.449	1.00 98.56	C
ATOM	6344	N	VAL	C	373	60.199	103.462	-12.250	1.00 83.09	C
ATOM	6345	CA	VAL	C	373	59.562	103.302	-10.945	1.00 83.09	C
ATOM	6346	CB	VAL	C	373	58.215	104.049	-10.916	1.00 71.59	C

ATOM	6347	CG1	VAL	C	373	57.413	103.633	-9.710	1.00	71.59	C
ATOM	6348	CG2	VAL	C	373	58.462	105.547	-10.900	1.00	71.59	C
ATOM	6349	C	VAL	C	373	59.319	101.854	-10.547	1.00	83.09	C
ATOM	6350	O	VAL	C	373	58.975	101.019	-11.377	1.00	83.09	C
ATOM	6351	N	ASN	C	374	59.498	101.567	-9.263	1.00	53.47	C
ATOM	6352	CA	ASN	C	374	59.283	100.222	-8.746	1.00	53.47	C
ATOM	6353	CB	ASN	C	374	60.617	99.578	-8.370	1.00	100.07	C
ATOM	6354	CG	ASN	C	374	61.586	99.530	-9.539	1.00	100.07	C
ATOM	6355	OD1	ASN	C	374	61.214	99.159	-10.658	1.00	100.07	C
ATOM	6356	ND2	ASN	C	374	62.839	99.897	-9.284	1.00	100.07	C
ATOM	6357	C	ASN	C	374	58.340	100.233	-7.541	1.00	53.47	C
ATOM	6358	O	ASN	C	374	58.368	101.153	-6.716	1.00	53.47	C
ATOM	6359	N	SER	C	375	57.502	99.204	-7.444	1.00	68.54	C
ATOM	6360	CA	SER	C	375	56.534	99.115	-6.362	1.00	68.54	C
ATOM	6361	CB	SER	C	375	55.250	98.475	-6.878	1.00	100.07	C
ATOM	6362	OG	SER	C	375	54.754	99.187	-7.999	1.00	100.07	C
ATOM	6363	C	SER	C	375	57.051	98.340	-5.169	1.00	68.54	C
ATOM	6364	O	SER	C	375	56.412	97.396	-4.712	1.00	68.54	C
ATOM	6365	N	ARG	C	376	58.216	98.739	-4.672	1.00	40.13	C
ATOM	6366	CA	ARG	C	376	58.826	98.088	-3.518	1.00	40.13	C
ATOM	6367	CB	ARG	C	376	60.207	97.525	-3.868	1.00	100.07	C
ATOM	6368	CG	ARG	C	376	60.149	96.199	-4.626	1.00	100.07	C
ATOM	6369	CD	ARG	C	376	61.510	95.505	-4.704	1.00	100.07	C
ATOM	6370	NE	ARG	C	376	61.388	94.123	-5.172	1.00	100.07	C
ATOM	6371	CZ	ARG	C	376	62.390	93.248	-5.208	1.00	100.07	C
ATOM	6372	NH1	ARG	C	376	63.604	93.607	-4.801	1.00	100.07	C
ATOM	6373	NH2	ARG	C	376	62.173	92.010	-5.644	1.00	100.07	C
ATOM	6374	C	ARG	C	376	58.936	99.080	-2.381	1.00	40.13	C
ATOM	6375	O	ARG	C	376	58.538	98.795	-1.257	1.00	40.13	C
ATOM	6376	N	PRO	C	377	59.475	100.267	-2.658	1.00	70.63	C
ATOM	6377	CD	PRO	C	377	59.910	100.758	-3.972	1.00	100.07	C
ATOM	6378	CA	PRO	C	377	59.626	101.313	-1.645	1.00	70.63	C
ATOM	6379	CB	PRO	C	377	59.967	102.554	-2.478	1.00	100.07	C
ATOM	6380	CG	PRO	C	377	59.513	102.193	-3.888	1.00	100.07	C
ATOM	6381	C	PRO	C	377	58.394	101.535	-0.760	1.00	70.63	C
ATOM	6382	O	PRO	C	377	58.501	101.506	0.463	1.00	70.63	C
ATOM	6383	N	LEU	C	378	57.238	101.760	-1.386	1.00	70.91	C
ATOM	6384	CA	LEU	C	378	55.985	101.992	-0.665	1.00	70.91	C
ATOM	6385	CB	LEU	C	378	54.940	102.613	-1.586	1.00	81.51	C
ATOM	6386	CG	LEU	C	378	55.158	104.095	-1.863	1.00	81.51	C
ATOM	6387	CD1	LEU	C	378	56.464	104.313	-2.625	1.00	81.51	C
ATOM	6388	CD2	LEU	C	378	53.980	104.609	-2.648	1.00	81.51	C
ATOM	6389	C	LEU	C	378	55.421	100.727	-0.040	1.00	70.91	C
ATOM	6390	O	LEU	C	378	54.634	100.785	0.909	1.00	70.91	C
ATOM	6391	N	GLU	C	379	55.792	99.581	-0.594	1.00	69.76	C
ATOM	6392	CA	GLU	C	379	55.356	98.330	-0.014	1.00	69.76	C
ATOM	6393	CB	GLU	C	379	55.325	97.216	-1.054	1.00	100.07	C
ATOM	6394	CG	GLU	C	379	54.327	96.139	-0.699	1.00	100.07	C
ATOM	6395	CD	GLU	C	379	53.041	96.733	-0.149	1.00	100.07	C
ATOM	6396	OE1	GLU	C	379	52.484	97.637	-0.810	1.00	100.07	C
ATOM	6397	OE2	GLU	C	379	52.590	96.306	0.939	1.00	100.07	C
ATOM	6398	C	GLU	C	379	56.470	98.107	0.993	1.00	69.76	C
ATOM	6399	O	GLU	C	379	57.489	98.796	0.934	1.00	69.76	C
ATOM	6400	N	ALA	C	380	56.298	97.169	1.915	1.00	99.83	C
ATOM	6401	CA	ALA	C	380	57.319	96.939	2.931	1.00	99.83	C
ATOM	6402	CB	ALA	C	380	58.694	96.751	2.287	1.00	68.20	C
ATOM	6403	C	ALA	C	380	57.324	98.175	3.818	1.00	99.83	C
ATOM	6404	O	ALA	C	380	56.989	98.105	4.996	1.00	99.83	C
ATOM	6405	N	ALA	C	381	57.695	99.313	3.244	1.00	58.39	C
ATOM	6406	CA	ALA	C	381	57.717	100.555	3.993	1.00	58.39	C
ATOM	6407	CB	ALA	C	381	57.894	101.725	3.065	1.00	100.07	C
ATOM	6408	C	ALA	C	381	56.394	100.655	4.712	1.00	58.39	C
ATOM	6409	O	ALA	C	381	56.291	101.318	5.736	1.00	58.39	C
ATOM	6410	N	LEU	C	382	55.385	99.993	4.150	1.00	82.05	C
ATOM	6411	CA	LEU	C	382	54.046	99.939	4.731	1.00	82.05	C
ATOM	6412	CB	LEU	C	382	52.978	100.171	3.672	1.00	5.55	C
ATOM	6413	CG	LEU	C	382	52.716	101.595	3.216	1.00	5.55	C
ATOM	6414	CD1	LEU	C	382	51.793	101.569	2.028	1.00	5.55	C
ATOM	6415	CD2	LEU	C	382	52.099	102.391	4.345	1.00	5.55	C
ATOM	6416	C	LEU	C	382	53.854	98.547	5.306	1.00	82.05	C
ATOM	6417	O	LEU	C	382	53.592	98.381	6.500	1.00	82.05	C
ATOM	6418	N	ARG	C	383	53.981	97.547	4.436	1.00	94.25	C
ATOM	6419	CA	ARG	C	383	53.841	96.156	4.837	1.00	94.25	C
ATOM	6420	CB	ARG	C	383	54.454	95.227	3.778	1.00	100.07	C
ATOM	6421	CG	ARG	C	383	54.527	93.756	4.184	1.00	100.07	C
ATOM	6422	CD	ARG	C	383	55.108	92.872	3.072	1.00	100.07	C
ATOM	6423	NE	ARG	C	383	54.186	92.700	1.945	1.00	100.07	C
ATOM	6424	CZ	ARG	C	383	54.338	91.799	0.970	1.00	100.07	C
ATOM	6425	NH1	ARG	C	383	55.381	90.975	0.975	1.00	100.07	C
ATOM	6426	NH2	ARG	C	383	53.439	91.709	-0.009	1.00	100.07	C
ATOM	6427	C	ARG	C	383	54.557	95.981	6.163	1.00	94.25	C
ATOM	6428	O	ARG	C	383	54.186	95.130	6.969	1.00	94.25	C
ATOM	6429	N	GLU	C	384	55.583	96.796	6.391	1.00	56.29	C
ATOM	6430	CA	GLU	C	384	56.308	96.713	7.634	1.00	56.29	C

ATOM	6431	CB	GLU	C	384	57.712	97.282	7.523	1.00	84.63	C
ATOM	6432	CG	GLU	C	384	58.655	96.650	8.525	1.00	84.63	C
ATOM	6433	CD	GLU	C	384	59.980	97.370	8.618	1.00	84.63	C
ATOM	6434	OE1	GLU	C	384	60.038	98.424	9.291	1.00	84.63	C
ATOM	6435	OE2	GLU	C	384	60.962	96.887	8.010	1.00	84.63	C
ATOM	6436	C	GLU	C	384	55.535	97.481	8.675	1.00	56.29	C
ATOM	6437	O	GLU	C	384	55.254	96.945	9.742	1.00	56.29	C
ATOM	6438	N	PHE	C	385	55.163	98.726	8.402	1.00	53.87	C
ATOM	6439	CA	PHE	C	385	54.421	99.423	9.439	1.00	53.87	C
ATOM	6440	CB	PHE	C	385	54.222	100.908	9.165	1.00	31.97	C
ATOM	6441	CG	PHE	C	385	53.353	101.582	10.214	1.00	31.97	C
ATOM	6442	CD1	PHE	C	385	53.785	101.677	11.540	1.00	31.97	C
ATOM	6443	CD2	PHE	C	385	52.078	102.045	9.900	1.00	31.97	C
ATOM	6444	CE1	PHE	C	385	52.972	102.214	12.527	1.00	31.97	C
ATOM	6445	CE2	PHE	C	385	51.263	102.581	10.885	1.00	31.97	C
ATOM	6446	CZ	PHE	C	385	51.714	102.663	12.200	1.00	31.97	C
ATOM	6447	C	PHE	C	385	53.052	98.832	9.728	1.00	53.87	C
ATOM	6448	O	PHE	C	385	52.946	97.856	10.462	1.00	53.87	C
ATOM	6449	N	PHE	C	386	52.014	99.425	9.140	1.00	46.11	C
ATOM	6450	CA	PHE	C	386	50.639	99.012	9.381	1.00	46.11	C
ATOM	6451	CB	PHE	C	386	49.834	98.926	8.081	1.00	42.42	C
ATOM	6452	CG	PHE	C	386	48.394	99.267	8.272	1.00	42.42	C
ATOM	6453	CD1	PHE	C	386	47.875	100.451	7.768	1.00	42.42	C
ATOM	6454	CD2	PHE	C	386	47.581	98.465	9.076	1.00	42.42	C
ATOM	6455	CE1	PHE	C	386	46.555	100.840	8.071	1.00	42.42	C
ATOM	6456	CE2	PHE	C	386	46.261	98.844	9.386	1.00	42.42	C
ATOM	6457	CZ	PHE	C	386	45.745	100.033	8.888	1.00	42.42	C
ATOM	6458	C	PHE	C	386	50.535	97.694	10.134	1.00	46.11	C
ATOM	6459	O	PHE	C	386	50.323	97.674	11.353	1.00	46.11	C
ATOM	6460	N	SER	C	387	50.696	96.589	9.423	1.00	23.33	C
ATOM	6461	CA	SER	C	387	50.619	95.294	10.078	1.00	23.33	C
ATOM	6462	CB	SER	C	387	50.407	94.188	9.038	1.00	100.07	C
ATOM	6463	OG	SER	C	387	49.034	93.837	8.945	1.00	100.07	C
ATOM	6464	C	SER	C	387	51.886	95.050	10.875	1.00	23.33	C
ATOM	6465	O	SER	C	387	52.297	95.891	11.652	1.00	23.33	C
ATOM	6466	N	ARG	C	388	52.495	93.897	10.676	1.00	84.80	C
ATOM	6467	CA	ARG	C	388	53.716	93.533	11.361	1.00	84.80	C
ATOM	6468	CB	ARG	C	388	54.832	93.413	10.327	1.00	100.07	C
ATOM	6469	CG	ARG	C	388	54.634	92.229	9.379	1.00	100.07	C
ATOM	6470	CD	ARG	C	388	55.745	92.147	8.349	1.00	100.07	C
ATOM	6471	NE	ARG	C	388	56.133	90.770	8.059	1.00	100.07	C
ATOM	6472	CZ	ARG	C	388	57.221	90.434	7.369	1.00	100.07	C
ATOM	6473	NH1	ARG	C	388	58.026	91.378	6.897	1.00	100.07	C
ATOM	6474	NH2	ARG	C	388	57.517	89.157	7.162	1.00	100.07	C
ATOM	6475	C	ARG	C	388	54.163	94.399	12.553	1.00	84.80	C
ATOM	6476	O	ARG	C	388	53.417	94.569	13.516	1.00	84.80	C
ATOM	6477	N	SER	C	389	55.372	94.948	12.487	1.00	15.17	C
ATOM	6478	CA	SER	C	389	55.938	95.743	13.591	1.00	15.17	C
ATOM	6479	CB	SER	C	389	57.466	95.729	13.482	1.00	100.07	C
ATOM	6480	OG	SER	C	389	57.900	96.390	12.301	1.00	100.07	C
ATOM	6481	C	SER	C	389	55.498	97.197	13.797	1.00	15.17	C
ATOM	6482	O	SER	C	389	55.539	98.003	12.868	1.00	15.17	C
ATOM	6483	N	ALA	C	390	55.130	97.520	15.034	1.00	74.60	C
ATOM	6484	CA	ALA	C	390	54.695	98.860	15.437	1.00	74.60	C
ATOM	6485	CB	ALA	C	390	54.061	99.607	14.271	1.00	54.82	C
ATOM	6486	C	ALA	C	390	53.680	98.725	16.561	1.00	74.60	C
ATOM	6487	O	ALA	C	390	52.511	98.422	16.299	1.00	74.60	C
ATOM	6488	N	LEU	C	391	54.128	98.943	17.800	1.00	99.21	C
ATOM	6489	CA	LEU	C	391	53.259	98.846	18.973	1.00	99.21	C
ATOM	6490	CB	LEU	C	391	53.669	99.858	20.047	1.00	100.07	C
ATOM	6491	CG	LEU	C	391	54.523	99.374	21.223	1.00	100.07	C
ATOM	6492	CD1	LEU	C	391	54.940	100.571	22.082	1.00	100.07	C
ATOM	6493	CD2	LEU	C	391	53.733	98.361	22.048	1.00	100.07	C
ATOM	6494	C	LEU	C	391	51.833	99.122	18.557	1.00	99.21	C
ATOM	6495	O	LEU	C	391	50.907	98.427	18.965	1.00	99.21	C
ATOM	6496	N	SER	C	392	51.668	100.138	17.723	1.00	41.66	C
ATOM	6497	CA	SER	C	392	50.358	100.503	17.242	1.00	41.66	C
ATOM	6498	CB	SER	C	392	50.422	101.884	16.574	1.00	44.66	C
ATOM	6499	OG	SER	C	392	50.865	102.887	17.483	1.00	44.66	C
ATOM	6500	C	SER	C	392	49.798	99.439	16.283	1.00	41.66	C
ATOM	6501	O	SER	C	392	49.167	99.757	15.276	1.00	41.66	C
ATOM	6502	N	GLN	C	393	50.035	98.170	16.595	1.00	45.63	C
ATOM	6503	CA	GLN	C	393	49.507	97.080	15.782	1.00	45.63	C
ATOM	6504	CB	GLN	C	393	50.576	96.515	14.841	1.00	68.19	C
ATOM	6505	CG	GLN	C	393	50.051	95.603	13.683	1.00	68.19	C
ATOM	6506	CD	GLN	C	393	49.662	94.150	14.073	1.00	68.19	C
ATOM	6507	OE1	GLN	C	393	49.587	93.277	13.212	1.00	68.19	C
ATOM	6508	NE2	GLN	C	393	49.406	93.905	15.349	1.00	68.19	C
ATOM	6509	C	GLN	C	393	49.024	95.970	16.707	1.00	45.63	C
ATOM	6510	O	GLN	C	393	49.827	95.367	17.415	1.00	45.63	C
ATOM	6511	N	PHE	C	394	47.720	95.704	16.700	1.00	88.56	C
ATOM	6512	CA	PHE	C	394	47.133	94.642	17.513	1.00	88.56	C
ATOM	6513	CB	PHE	C	394	47.728	94.634	18.941	1.00	62.03	C
ATOM	6514	CG	PHE	C	394	47.836	96.016	19.621	1.00	62.03	C

ATOM	6515	CD1	PHE	C	394	46.727	96.841	19.784	1.00	62.03	C
ATOM	6516	CD2	PHE	C	394	49.036	96.426	20.217	1.00	62.03	C
ATOM	6517	CE1	PHE	C	394	46.804	98.040	20.536	1.00	62.03	C
ATOM	6518	CE2	PHE	C	394	49.109	97.625	20.967	1.00	62.03	C
ATOM	6519	CZ	PHE	C	394	47.989	98.422	21.123	1.00	62.03	C
ATOM	6520	C	PHE	C	394	45.608	94.717	17.565	1.00	88.56	C
ATOM	6521	O	PHE	C	394	45.041	95.805	17.458	1.00	88.56	C
ATOM	6522	N	LYS	C	395	44.947	93.562	17.689	1.00	92.90	C
ATOM	6523	CA	LYS	C	395	43.477	93.501	17.773	1.00	92.90	C
ATOM	6524	CB	LYS	C	395	42.921	92.323	16.983	1.00	92.45	C
ATOM	6525	CG	LYS	C	395	43.378	90.975	17.521	1.00	92.45	C
ATOM	6526	CD	LYS	C	395	42.263	89.937	17.495	1.00	92.45	C
ATOM	6527	CE	LYS	C	395	41.844	89.561	16.081	1.00	92.45	C
ATOM	6528	NZ	LYS	C	395	40.691	88.615	16.087	1.00	92.45	C
ATOM	6529	C	LYS	C	395	43.150	93.275	19.229	1.00	92.90	C
ATOM	6530	O	LYS	C	395	44.019	93.448	20.079	1.00	92.90	C
ATOM	6531	N	ASP	C	396	41.919	92.880	19.541	1.00	39.25	C
ATOM	6532	CA	ASP	C	396	41.618	92.631	20.953	1.00	39.25	C
ATOM	6533	CB	ASP	C	396	41.626	93.950	21.736	1.00	83.72	C
ATOM	6534	CG	ASP	C	396	42.032	93.762	23.190	1.00	83.72	C
ATOM	6535	OD1	ASP	C	396	41.329	93.032	23.913	1.00	83.72	C
ATOM	6536	OD2	ASP	C	396	43.054	94.344	23.610	1.00	83.72	C
ATOM	6537	C	ASP	C	396	40.357	91.843	21.299	1.00	39.25	C
ATOM	6538	O	ASP	C	396	39.245	92.384	21.347	1.00	39.25	C
ATOM	6539	N	GLU	C	397	40.576	90.551	21.537	1.00	48.65	C
ATOM	6540	CA	GLU	C	397	39.564	89.576	21.942	1.00	48.65	C
ATOM	6541	CB	GLU	C	397	39.712	89.342	23.455	1.00	45.27	C
ATOM	6542	CG	GLU	C	397	38.793	88.295	24.073	1.00	45.27	C
ATOM	6543	CD	GLU	C	397	37.623	88.895	24.826	1.00	45.27	C
ATOM	6544	OE1	GLU	C	397	36.931	89.783	24.286	1.00	45.27	C
ATOM	6545	OE2	GLU	C	397	37.393	88.452	25.965	1.00	45.27	C
ATOM	6546	C	GLU	C	397	38.080	89.793	21.600	1.00	48.65	C
ATOM	6547	O	GLU	C	397	37.703	90.722	20.888	1.00	48.65	C
ATOM	6548	N	THR	C	398	37.270	88.884	22.140	1.00	100.07	C
ATOM	6549	CA	THR	C	398	35.820	88.792	21.993	1.00	100.07	C
ATOM	6550	CB	THR	C	398	35.313	87.505	22.676	1.00	56.66	C
ATOM	6551	OG1	THR	C	398	35.825	87.433	24.011	1.00	56.66	C
ATOM	6552	CG2	THR	C	398	35.764	86.296	21.912	1.00	56.66	C
ATOM	6553	C	THR	C	398	34.937	89.940	22.478	1.00	100.07	C
ATOM	6554	O	THR	C	398	34.511	90.772	21.673	1.00	100.07	C
ATOM	6555	N	ASN	C	399	34.639	89.958	23.781	1.00	47.47	C
ATOM	6556	CA	ASN	C	399	33.766	90.977	24.375	1.00	47.47	C
ATOM	6557	CB	ASN	C	399	34.267	91.388	25.747	1.00	55.14	C
ATOM	6558	CG	ASN	C	399	33.471	92.536	26.325	1.00	55.14	C
ATOM	6559	OD1	ASN	C	399	33.833	93.106	27.355	1.00	55.14	C
ATOM	6560	ND2	ASN	C	399	32.373	92.880	25.667	1.00	55.14	C
ATOM	6561	C	ASN	C	399	33.651	92.229	23.521	1.00	47.47	C
ATOM	6562	O	ASN	C	399	34.444	93.151	23.673	1.00	47.47	C
ATOM	6563	N	PRO	C	400	32.634	92.292	22.644	1.00	35.05	C
ATOM	6564	CD	PRO	C	400	31.385	91.528	22.747	1.00	36.44	C
ATOM	6565	CA	PRO	C	400	32.436	93.445	21.769	1.00	35.05	C
ATOM	6566	CB	PRO	C	400	30.950	93.363	21.414	1.00	36.44	C
ATOM	6567	CG	PRO	C	400	30.365	92.600	22.543	1.00	36.44	C
ATOM	6568	C	PRO	C	400	32.834	94.790	22.380	1.00	35.05	C
ATOM	6569	O	PRO	C	400	33.244	95.707	21.657	1.00	35.05	C
ATOM	6570	N	LEU	C	401	32.722	94.934	23.698	1.00	23.41	C
ATOM	6571	CA	LEU	C	401	33.120	96.205	24.278	1.00	23.41	C
ATOM	6572	CB	LEU	C	401	32.995	96.209	25.793	1.00	13.07	C
ATOM	6573	CG	LEU	C	401	33.447	97.565	26.326	1.00	13.07	C
ATOM	6574	CD1	LEU	C	401	32.501	98.595	25.793	1.00	13.07	C
ATOM	6575	CD2	LEU	C	401	33.451	97.609	27.834	1.00	13.07	C
ATOM	6576	C	LEU	C	401	34.574	96.312	23.911	1.00	23.41	C
ATOM	6577	O	LEU	C	401	35.009	97.279	23.292	1.00	23.41	C
ATOM	6578	N	SER	C	402	35.307	95.271	24.285	1.00	37.62	C
ATOM	6579	CA	SER	C	402	36.735	95.159	24.027	1.00	37.62	C
ATOM	6580	CB	SER	C	402	37.159	93.699	24.206	1.00	58.42	C
ATOM	6581	OG	SER	C	402	36.598	93.170	25.395	1.00	58.42	C
ATOM	6582	C	SER	C	402	37.094	95.648	22.622	1.00	37.62	C
ATOM	6583	O	SER	C	402	37.676	96.720	22.443	1.00	37.62	C
ATOM	6584	N	SER	C	403	36.746	94.856	21.623	1.00	59.01	C
ATOM	6585	CA	SER	C	403	37.027	95.232	20.256	1.00	59.01	C
ATOM	6586	CB	SER	C	403	36.280	94.302	19.304	1.00	100.07	C
ATOM	6587	OG	SER	C	403	34.880	94.375	19.519	1.00	100.07	C
ATOM	6588	C	SER	C	403	36.616	96.678	19.975	1.00	59.01	C
ATOM	6589	O	SER	C	403	36.816	97.171	18.868	1.00	59.01	C
ATOM	6590	N	LEU	C	404	36.031	97.353	20.963	1.00	29.86	C
ATOM	6591	CA	LEU	C	404	35.601	98.741	20.787	1.00	29.86	C
ATOM	6592	CB	LEU	C	404	34.121	98.884	21.167	1.00	33.94	C
ATOM	6593	CG	LEU	C	404	33.424	100.196	20.787	1.00	33.94	C
ATOM	6594	CD1	LEU	C	404	33.246	100.275	19.289	1.00	33.94	C
ATOM	6595	CD2	LEU	C	404	32.070	100.258	21.448	1.00	33.94	C
ATOM	6596	C	LEU	C	404	36.459	99.719	21.610	1.00	29.86	C
ATOM	6597	O	LEU	C	404	37.066	100.646	21.052	1.00	29.86	C
ATOM	6598	N	ARG	C	405	36.508	99.498	22.928	1.00	41.17	C

ATOM	6599	CA	ARG	C	405	37.286	100.332	23.852	1.00	41.17	C
ATOM	6600	CB	ARG	C	405	37.154	99.815	25.300	1.00	100.07	C
ATOM	6601	CG	ARG	C	405	38.471	99.334	25.985	1.00	100.07	C
ATOM	6602	CD	ARG	C	405	39.043	98.062	25.331	1.00	100.07	C
ATOM	6603	NE	ARG	C	405	40.331	97.622	25.879	1.00	100.07	C
ATOM	6604	CZ	ARG	C	405	41.087	96.663	25.335	1.00	100.07	C
ATOM	6605	NH1	ARG	C	405	40.690	96.045	24.232	1.00	100.07	C
ATOM	6606	NH2	ARG	C	405	42.242	96.317	25.890	1.00	100.07	C
ATOM	6607	C	ARG	C	405	38.740	100.293	23.451	1.00	41.17	C
ATOM	6608	O	ARG	C	405	39.570	101.003	24.008	1.00	41.17	C
ATOM	6609	N	HIS	C	406	39.042	99.447	22.479	1.00	24.77	C
ATOM	6610	CA	HIS	C	406	40.404	99.278	22.030	1.00	24.77	C
ATOM	6611	CB	HIS	C	406	40.645	97.818	21.701	1.00	25.51	C
ATOM	6612	CG	HIS	C	406	42.032	97.532	21.235	1.00	25.51	C
ATOM	6613	CD2	HIS	C	406	43.080	96.957	21.867	1.00	25.51	C
ATOM	6614	ND1	HIS	C	406	42.466	97.843	19.966	1.00	25.51	C
ATOM	6615	CE1	HIS	C	406	43.721	97.468	19.836	1.00	25.51	C
ATOM	6616	NE2	HIS	C	406	44.118	96.927	20.973	1.00	25.51	C
ATOM	6617	C	HIS	C	406	40.785	100.138	20.850	1.00	24.77	C
ATOM	6618	O	HIS	C	406	41.967	100.355	20.605	1.00	24.77	C
ATOM	6619	N	ALA	C	407	39.803	100.600	20.092	1.00	38.45	C
ATOM	6620	CA	ALA	C	407	40.115	101.471	18.970	1.00	38.45	C
ATOM	6621	CB	ALA	C	407	39.042	101.398	17.932	1.00	26.31	C
ATOM	6622	C	ALA	C	407	40.098	102.826	19.624	1.00	38.45	C
ATOM	6623	O	ALA	C	407	40.726	103.776	19.156	1.00	38.45	C
ATOM	6624	N	ARG	C	408	39.377	102.864	20.742	1.00	53.76	C
ATOM	6625	CA	ARG	C	408	39.171	104.055	21.549	1.00	53.76	C
ATOM	6626	CB	ARG	C	408	37.830	103.924	22.284	1.00	38.44	C
ATOM	6627	CG	ARG	C	408	37.253	105.223	22.770	1.00	38.44	C
ATOM	6628	CD	ARG	C	408	35.952	105.034	23.549	1.00	38.44	C
ATOM	6629	NE	ARG	C	408	35.174	106.269	23.554	1.00	38.44	C
ATOM	6630	CZ	ARG	C	408	34.881	106.954	22.447	1.00	38.44	C
ATOM	6631	NH1	ARG	C	408	35.300	106.516	21.260	1.00	38.44	C
ATOM	6632	NH2	ARG	C	408	34.181	108.081	22.516	1.00	38.44	C
ATOM	6633	C	ARG	C	408	40.308	104.335	22.543	1.00	53.76	C
ATOM	6634	O	ARG	C	408	40.254	105.321	23.276	1.00	53.76	C
ATOM	6635	N	ARG	C	409	41.324	103.471	22.588	1.00	53.14	C
ATOM	6636	CA	ARG	C	409	42.462	103.699	23.486	1.00	53.14	C
ATOM	6637	CB	ARG	C	409	43.333	102.453	23.647	1.00	56.81	C
ATOM	6638	CG	ARG	C	409	43.025	101.587	24.855	1.00	56.81	C
ATOM	6639	CD	ARG	C	409	44.033	100.433	24.942	1.00	56.81	C
ATOM	6640	NE	ARG	C	409	43.760	99.503	26.040	1.00	56.81	C
ATOM	6641	CZ	ARG	C	409	44.543	98.477	26.377	1.00	56.81	C
ATOM	6642	NH1	ARG	C	409	45.671	98.233	25.710	1.00	56.81	C
ATOM	6643	NH2	ARG	C	409	44.179	97.679	27.373	1.00	56.81	C
ATOM	6644	C	ARG	C	409	43.294	104.782	22.838	1.00	53.14	C
ATOM	6645	O	ARG	C	409	43.048	105.153	21.689	1.00	53.14	C
ATOM	6646	N	ILE	C	410	44.298	105.269	23.553	1.00	27.33	C
ATOM	6647	CA	ILE	C	410	45.130	106.344	23.024	1.00	27.33	C
ATOM	6648	CB	ILE	C	410	44.672	107.713	23.598	1.00	41.58	C
ATOM	6649	CG2	ILE	C	410	45.571	108.843	23.096	1.00	41.58	C
ATOM	6650	CG1	ILE	C	410	43.220	107.970	23.202	1.00	41.58	C
ATOM	6651	CD	ILE	C	410	42.743	109.335	23.544	1.00	41.58	C
ATOM	6652	C	ILE	C	410	46.597	106.159	23.350	1.00	27.33	C
ATOM	6653	O	ILE	C	410	47.265	105.263	22.832	1.00	27.33	C
ATOM	6654	N	SER	C	411	47.079	107.058	24.199	1.00	36.52	C
ATOM	6655	CA	SER	C	411	48.443	107.066	24.691	1.00	36.52	C
ATOM	6656	CB	SER	C	411	48.400	106.733	26.185	1.00	62.16	C
ATOM	6657	OG	SER	C	411	47.111	106.239	26.551	1.00	62.16	C
ATOM	6658	C	SER	C	411	49.383	106.110	23.959	1.00	36.52	C
ATOM	6659	O	SER	C	411	49.423	106.074	22.732	1.00	36.52	C
ATOM	6660	N	ALA	C	412	50.137	105.348	24.743	1.00	64.92	C
ATOM	6661	CA	ALA	C	412	51.079	104.367	24.227	1.00	64.92	C
ATOM	6662	CB	ALA	C	412	50.440	103.585	23.073	1.00	18.77	C
ATOM	6663	C	ALA	C	412	52.397	104.989	23.780	1.00	64.92	C
ATOM	6664	O	ALA	C	412	52.438	106.139	23.356	1.00	64.92	C
ATOM	6665	N	ALA	C	413	53.472	104.215	23.888	1.00	57.15	C
ATOM	6666	CA	ALA	C	413	54.794	104.668	23.478	1.00	57.15	C
ATOM	6667	CB	ALA	C	413	55.835	103.618	23.849	1.00	81.91	C
ATOM	6668	C	ALA	C	413	54.789	104.895	21.966	1.00	57.15	C
ATOM	6669	O	ALA	C	413	54.967	103.955	21.195	1.00	57.15	C
ATOM	6670	N	ALA	C	414	54.597	106.145	21.552	1.00	100.07	C
ATOM	6671	CA	ALA	C	414	54.538	106.498	20.131	1.00	100.07	C
ATOM	6672	CB	ALA	C	414	54.007	107.936	19.969	1.00	67.08	C
ATOM	6673	C	ALA	C	414	55.854	106.348	19.372	1.00	100.07	C
ATOM	6674	O	ALA	C	414	56.673	105.470	19.669	1.00	100.07	C
ATOM	6675	N	ALA	C	415	56.035	107.211	18.376	1.00	100.07	C
ATOM	6676	CA	ALA	C	415	57.236	107.199	17.560	1.00	100.07	C
ATOM	6677	CB	ALA	C	415	56.975	107.914	16.240	1.00	100.07	C
ATOM	6678	C	ALA	C	415	58.383	107.868	18.312	1.00	100.07	C
ATOM	6679	O	ALA	C	415	58.186	108.439	19.388	1.00	100.07	C
ATOM	6680	N	ALA	C	416	59.579	107.791	17.731	1.00	100.07	C
ATOM	6681	CA	ALA	C	416	60.785	108.364	18.326	1.00	100.07	C
ATOM	6682	CB	ALA	C	416	61.988	108.113	17.413	1.00	91.00	C

ATOM	6683	C	ALA	C	416	60.677	109.855	18.660	1.00100.07	C
ATOM	6684	O	ALA	C	416	59.752	110.269	19.370	1.00100.07	C
ATOM	6685	N	ALA	C	417	61.621	110.650	18.147	1.00100.07	C
ATOM	6686	CA	ALA	C	417	61.670	112.095	18.405	1.00100.07	C
ATOM	6687	CB	ALA	C	417	60.355	112.768	17.983	1.00 51.89	C
ATOM	6688	C	ALA	C	417	61.930	112.304	19.906	1.00100.07	C
ATOM	6689	O	ALA	C	417	63.084	112.323	20.345	1.00100.07	C
ATOM	6690	N	ALA	C	418	60.863	112.441	20.693	1.00100.07	C
ATOM	6691	CA	ALA	C	418	60.987	112.618	22.144	1.00100.07	C
ATOM	6692	CB	ALA	C	418	61.465	114.040	22.477	1.00 65.97	C
ATOM	6693	C	ALA	C	418	59.649	112.337	22.833	1.00100.07	C
ATOM	6694	O	ALA	C	418	59.244	113.068	23.742	1.00100.07	C
ATOM	6695	N	ALA	C	419	58.981	111.262	22.400	1.00100.07	C
ATOM	6696	CA	ALA	C	419	57.677	110.872	22.937	1.00100.07	C
ATOM	6697	CB	ALA	C	419	56.589	111.092	21.861	1.00 90.38	C
ATOM	6698	C	ALA	C	419	57.578	109.445	23.485	1.00100.07	C
ATOM	6699	O	ALA	C	419	57.508	108.477	22.722	1.00100.07	C
ATOM	6700	N	ALA	C	420	57.572	109.344	24.814	1.00 96.61	C
ATOM	6701	CA	ALA	C	420	57.423	108.083	25.534	1.00 96.61	C
ATOM	6702	CB	ALA	C	420	56.034	107.527	25.260	1.00100.07	C
ATOM	6703	C	ALA	C	420	58.434	106.959	25.397	1.00 96.61	C
ATOM	6704	O	ALA	C	420	59.294	106.954	24.518	1.00 96.61	C
ATOM	6705	N	GLU	C	421	58.266	105.990	26.291	1.00 64.31	C
ATOM	6706	CA	GLU	C	421	59.073	104.785	26.406	1.00 64.31	C
ATOM	6707	CB	GLU	C	421	60.558	105.115	26.425	1.00100.07	C
ATOM	6708	CG	GLU	C	421	61.351	104.126	27.269	1.00100.07	C
ATOM	6709	CD	GLU	C	421	62.822	104.450	27.322	1.00100.07	C
ATOM	6710	OE1	GLU	C	421	63.162	105.631	27.559	1.00100.07	C
ATOM	6711	OE2	GLU	C	421	63.636	103.519	27.131	1.00100.07	C
ATOM	6712	C	GLU	C	421	58.693	104.147	27.744	1.00 64.31	C
ATOM	6713	O	GLU	C	421	58.271	104.844	28.657	1.00 64.31	C
ATOM	6714	N	ARG	C	422	58.854	102.837	27.873	1.00 72.83	C
ATOM	6715	CA	ARG	C	422	58.494	102.138	29.104	1.00 72.83	C
ATOM	6716	CB	ARG	C	422	58.571	100.615	28.891	1.00100.07	C
ATOM	6717	CG	ARG	C	422	57.941	100.131	27.571	1.00100.07	C
ATOM	6718	CD	ARG	C	422	57.685	98.612	27.524	1.00100.07	C
ATOM	6719	NE	ARG	C	422	57.274	98.179	26.183	1.00100.07	C
ATOM	6720	CZ	ARG	C	422	56.744	96.992	25.882	1.00100.07	C
ATOM	6721	NH1	ARG	C	422	56.536	96.076	26.824	1.00100.07	C
ATOM	6722	NH2	ARG	C	422	56.428	96.714	24.623	1.00100.07	C
ATOM	6723	C	ARG	C	422	59.370	102.531	30.297	1.00 72.83	C
ATOM	6724	O	ARG	C	422	59.663	101.696	31.155	1.00 72.83	C
ATOM	6725	N	ALA	C	423	59.760	103.809	30.334	1.00 99.57	C
ATOM	6726	CA	ALA	C	423	60.592	104.402	31.396	1.00 99.57	C
ATOM	6727	CB	ALA	C	423	61.556	103.361	31.982	1.00 72.35	C
ATOM	6728	C	ALA	C	423	61.388	105.585	30.839	1.00 99.57	C
ATOM	6729	O	ALA	C	423	62.496	105.865	31.295	1.00 99.57	C
ATOM	6730	N	GLY	C	424	60.814	106.285	29.864	1.00100.07	C
ATOM	6731	CA	GLY	C	424	61.507	107.400	29.233	1.00100.07	C
ATOM	6732	C	GLY	C	424	62.001	108.507	30.145	1.00100.07	C
ATOM	6733	O	GLY	C	424	61.836	108.428	31.367	1.00100.07	C
ATOM	6734	N	ALA	C	425	62.611	109.538	29.550	1.00100.07	C
ATOM	6735	CA	ALA	C	425	63.127	110.692	30.289	1.00100.07	C
ATOM	6736	CB	ALA	C	425	64.064	111.531	29.398	1.00 58.72	C
ATOM	6737	C	ALA	C	425	61.935	111.533	30.775	1.00100.07	C
ATOM	6738	O	ALA	C	425	62.025	112.752	30.940	1.00100.07	C
ATOM	6739	N	ALA	C	426	60.812	110.848	30.987	1.00100.07	C
ATOM	6740	CA	ALA	C	426	59.570	111.435	31.470	1.00100.07	C
ATOM	6741	CB	ALA	C	426	58.880	112.230	30.363	1.00 94.56	C
ATOM	6742	C	ALA	C	426	58.675	110.277	31.932	1.00100.07	C
ATOM	6743	O	ALA	C	426	58.220	109.466	31.122	1.00100.07	C
ATOM	6744	N	VAL	C	427	58.469	110.200	33.244	1.00100.07	C
ATOM	6745	CA	VAL	C	427	57.641	109.182	33.897	1.00100.07	C
ATOM	6746	CB	VAL	C	427	58.395	107.831	34.048	1.00100.07	C
ATOM	6747	CG1	VAL	C	427	57.554	106.843	34.848	1.00100.07	C
ATOM	6748	CG2	VAL	C	427	58.697	107.252	32.669	1.00100.07	C
ATOM	6749	C	VAL	C	427	57.275	109.756	35.280	1.00100.07	C
ATOM	6750	O	VAL	C	427	57.783	110.804	35.667	1.00100.07	C
ATOM	6751	N	ALA	C	428	56.404	109.065	36.012	1.00 70.42	C
ATOM	6752	CA	ALA	C	428	55.921	109.511	37.331	1.00 70.42	C
ATOM	6753	CB	ALA	C	428	57.075	109.655	38.331	1.00 40.60	C
ATOM	6754	C	ALA	C	428	55.180	110.835	37.217	1.00 70.42	C
ATOM	6755	O	ALA	C	428	54.017	110.949	37.599	1.00 70.42	C
ATOM	6756	N	ASP	C	429	55.870	111.829	36.670	1.00 98.97	C
ATOM	6757	CA	ASP	C	429	55.327	113.167	36.493	1.00 98.97	C
ATOM	6758	CB	ASP	C	429	56.434	114.101	36.011	1.00100.07	C
ATOM	6759	CG	ASP	C	429	57.818	113.630	36.431	1.00100.07	C
ATOM	6760	OD1	ASP	C	429	58.078	113.505	37.647	1.00100.07	C
ATOM	6761	OD2	ASP	C	429	58.642	113.385	35.527	1.00100.07	C
ATOM	6762	C	ASP	C	429	54.204	113.136	35.459	1.00 98.97	C
ATOM	6763	O	ASP	C	429	53.097	113.621	35.700	1.00 98.97	C
ATOM	6764	N	VAL	C	430	54.517	112.564	34.300	1.00 99.88	C
ATOM	6765	CA	VAL	C	430	53.582	112.443	33.191	1.00 99.88	C
ATOM	6766	CB	VAL	C	430	54.252	111.700	32.009	1.00100.07	C

ATOM	6767	CG1	VAL	C	430	53.323	111.669	30.818	1.00	100.07	C
ATOM	6768	CG2	VAL	C	430	55.559	112.379	31.646	1.00	100.07	C
ATOM	6769	C	VAL	C	430	52.303	111.699	33.586	1.00	99.88	C
ATOM	6770	O	VAL	C	430	51.216	112.292	33.634	1.00	99.88	C
ATOM	6771	N	HIS	C	431	52.454	110.401	33.861	1.00	100.07	C
ATOM	6772	CA	HIS	C	431	51.354	109.514	34.247	1.00	100.07	C
ATOM	6773	CB	HIS	C	431	51.844	108.486	35.282	1.00	87.20	C
ATOM	6774	CG	HIS	C	431	52.949	107.595	34.794	1.00	92.95	C
ATOM	6775	CD2	HIS	C	431	54.226	107.443	35.219	1.00	92.95	C
ATOM	6776	ND1	HIS	C	431	52.777	106.671	33.783	1.00	92.95	C
ATOM	6777	CE1	HIS	C	431	53.898	105.987	33.615	1.00	92.95	C
ATOM	6778	NE2	HIS	C	431	54.792	106.437	34.475	1.00	92.95	C
ATOM	6779	C	HIS	C	431	50.116	110.239	34.801	1.00	100.07	C
ATOM	6780	O	HIS	C	431	48.986	109.979	34.373	1.00	100.07	C
ATOM	6781	N	ALA	C	432	50.335	111.163	35.732	1.00	61.37	C
ATOM	6782	CA	ALA	C	432	49.251	111.919	36.361	1.00	61.37	C
ATOM	6783	CB	ALA	C	432	49.822	113.072	37.203	1.00	46.95	C
ATOM	6784	C	ALA	C	432	48.207	112.457	35.392	1.00	61.37	C
ATOM	6785	O	ALA	C	432	48.404	112.472	34.183	1.00	61.37	C
ATOM	6786	N	THR	C	433	47.085	112.878	35.961	1.00	38.18	C
ATOM	6787	CA	THR	C	433	45.957	113.422	35.223	1.00	38.18	C
ATOM	6788	CB	THR	C	433	44.633	112.950	35.844	1.00	100.07	C
ATOM	6789	OG1	THR	C	433	44.466	111.549	35.615	1.00	99.58	C
ATOM	6790	CG2	THR	C	433	43.475	113.708	35.239	1.00	99.58	C
ATOM	6791	C	THR	C	433	45.934	114.942	35.267	1.00	38.18	C
ATOM	6792	O	THR	C	433	45.799	115.511	36.341	1.00	38.18	C
ATOM	6793	N	HIS	C	434	46.036	115.599	34.115	1.00	47.33	C
ATOM	6794	CA	HIS	C	434	45.987	117.060	34.063	1.00	47.33	C
ATOM	6795	CB	HIS	C	434	46.633	117.561	32.780	1.00	82.00	C
ATOM	6796	CG	HIS	C	434	46.170	116.837	31.555	0.00	35.70	C
ATOM	6797	CD2	HIS	C	434	45.518	117.270	30.452	0.00	35.70	C
ATOM	6798	ND1	HIS	C	434	46.373	115.484	31.372	0.00	35.70	C
ATOM	6799	CE1	HIS	C	434	45.867	115.121	30.205	0.00	35.70	C
ATOM	6800	NE2	HIS	C	434	45.344	116.188	29.628	0.00	35.70	C
ATOM	6801	C	HIS	C	434	44.527	117.476	34.095	1.00	47.33	C
ATOM	6802	O	HIS	C	434	43.638	116.653	33.868	1.00	47.33	C
ATOM	6803	N	TYR	C	435	44.262	118.744	34.373	1.00	99.57	C
ATOM	6804	CA	TYR	C	435	42.878	119.177	34.416	1.00	99.57	C
ATOM	6805	CB	TYR	C	435	42.759	120.593	34.975	1.00	14.53	C
ATOM	6806	CG	TYR	C	435	43.626	121.605	34.293	0.00	5.07	C
ATOM											

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ATOM	6851	N	VAL	C	441	39.530	109.369	33.250	1.00	52.92	C
ATOM	6852	CA	VAL	C	441	40.059	109.761	34.532	1.00	52.92	C
ATOM	6853	CB	VAL	C	441	39.084	110.718	35.231	1.00	44.78	C
ATOM	6854	CG1	VAL	C	441	38.818	111.920	34.349	1.00	44.78	C
ATOM	6855	CG2	VAL	C	441	37.776	110.009	35.504	1.00	44.78	C
ATOM	6856	C	VAL	C	441	40.253	108.509	35.378	1.00	52.92	C
ATOM	6857	O	VAL	C	441	41.299	108.337	36.015	1.00	52.92	C
ATOM	6858	N	ALA	C	442	39.254	107.622	35.351	1.00	40.09	C
ATOM	6859	CA	ALA	C	442	39.275	106.388	36.135	1.00	40.09	C
ATOM	6860	CB	ALA	C	442	37.903	106.147	36.750	1.00	27.54	C
ATOM	6861	C	ALA	C	442	39.691	105.152	35.365	1.00	40.09	C
ATOM	6862	O	ALA	C	442	39.912	104.102	35.965	1.00	40.09	C
ATOM	6863	N	THR	C	443	39.825	105.274	34.048	1.00	55.15	C
ATOM	6864	CA	THR	C	443	40.164	104.107	33.234	1.00	55.15	C
ATOM	6865	CB	THR	C	443	39.019	103.828	32.245	1.00	100.07	C
ATOM	6866	OG1	THR	C	443	37.771	104.218	32.847	1.00	100.07	C
ATOM	6867	CG2	THR	C	443	38.974	102.334	31.903	1.00	100.07	C
ATOM	6868	C	THR	C	443	41.503	104.025	32.473	1.00	55.15	C
ATOM	6869	O	THR	C	443	41.563	104.177	31.249	1.00	55.15	C
ATOM	6870	N	PRO	C	444	42.595	103.763	33.202	1.00	92.64	C
ATOM	6871	CD	PRO	C	444	42.690	103.710	34.670	1.00	100.07	C
ATOM	6872	CA	PRO	C	444	43.923	103.646	32.616	1.00	92.64	C
ATOM	6873	CB	PRO	C	444	44.812	104.177	33.712	1.00	100.07	C
ATOM	6874	CG	PRO	C	444	44.193	103.508	34.892	1.00	100.07	C
ATOM	6875	C	PRO	C	444	44.125	102.159	32.427	1.00	92.64	C
ATOM	6876	O	PRO	C	444	43.165	101.403	32.308	1.00	92.64	C
ATOM	6877	N	GLU	C	445	45.375	101.732	32.444	1.00	35.24	C
ATOM	6878	CA	GLU	C	445	45.664	100.334	32.264	1.00	35.24	C
ATOM	6879	CB	GLU	C	445	46.597	100.128	31.076	1.00	100.07	C
ATOM	6880	CG	GLU	C	445	45.882	99.957	29.747	1.00	100.07	C
ATOM	6881	CD	GLU	C	445	44.960	98.743	29.725	1.00	100.07	C
ATOM	6882	OE1	GLU	C	445	43.792	98.861	30.155	1.00	100.07	C
ATOM	6883	OE2	GLU	C	445	45.410	97.663	29.285	1.00	100.07	C
ATOM	6884	C	GLU	C	445	46.297	99.809	33.510	1.00	35.24	C
ATOM	6885	O	GLU	C	445	46.975	98.796	33.477	1.00	35.24	C
ATOM	6886	N	GLY	C	446	46.077	100.519	34.606	1.00	38.20	C
ATOM	6887	CA	GLY	C	446	46.613	100.127	35.903	1.00	38.20	C
ATOM	6888	C	GLY	C	446	47.905	99.337	36.014	1.00	38.20	C
ATOM	6889	O	GLY	C	446	48.008	98.232	35.504	1.00	38.20	C
ATOM	6890	N	ALA	C	447	48.882	99.904	36.714	1.00	49.32	C
ATOM	6891	CA	ALA	C	447	50.190	99.278	36.927	1.00	49.32	C
ATOM	6892	CB	ALA	C	447	50.063	97.756	36.993	1.00	91.95	C
ATOM	6893	C	ALA	C	447	51.219	99.668	35.873	1.00	49.32	C
ATOM	6894	O	ALA	C	447	50.939	100.464	34.974	1.00	49.32	C
ATOM	6895	N	ASN	C	448	52.420	99.118	36.013	1.00	90.35	C
ATOM	6896	CA	ASN	C	448	53.511	99.393	35.091	1.00	90.35	C
ATOM	6897	CB	ASN	C	448	54.442	98.183	35.031	1.00	100.07	C
ATOM	6898	CG	ASN	C	448	53.701	96.898	34.709	1.00	100.07	C
ATOM	6899	OD1	ASN	C	448	52.552	96.712	35.119	1.00	100.07	C
ATOM	6900	ND2	ASN	C	448	54.360	95.995	33.984	1.00	100.07	C
ATOM	6901	C	ASN	C	448	52.970	99.709	33.708	1.00	90.35	C
ATOM	6902	O	ASN	C	448	52.214	98.925	33.139	1.00	90.35	C
ATOM	6903	N	ILE	C	449	53.337	100.875	33.186	1.00	36.73	C
ATOM	6904	CA	ILE	C	449	52.894	101.305	31.862	1.00	36.73	C
ATOM	6905	CB	ILE	C	449	53.504	100.414	30.749	1.00	100.01	C
ATOM	6906	CG2	ILE	C	449	52.756	100.599	29.430	1.00	100.01	C
ATOM	6907	CG1	ILE	C	449	54.997	100.737	30.609	1.00	100.01	C
ATOM	6908	CD	ILE	C	449	55.311	102.230	30.461	1.00	100.01	C
ATOM	6909	C	ILE	C	449	51.390	101.316	31.731	1.00	36.73	C
ATOM	6910	O	ILE	C	449	50.853	101.883	30.796	1.00	36.73	C
ATOM	6911	N	GLY	C	450	50.704	100.686	32.667	1.00	100.07	C
ATOM	6912	CA	GLY	C	450	49.263	100.689	32.607	1.00	100.07	C
ATOM	6913	C	GLY	C	450	48.840	102.093	32.968	1.00	100.07	C
ATOM	6914	O	GLY	C	450	47.670	102.353	33.250	1.00	100.07	C
ATOM	6915	N	LEU	C	451	49.812	103.001	32.955	1.00	27.08	C
ATOM	6916	CA	LEU	C	451	49.562	104.393	33.296	1.00	27.08	C
ATOM	6917	CB	LEU	C	451	50.470	104.744	34.450	1.00	19.71	C
ATOM	6918	CG	LEU	C	451	50.422	103.577	35.424	1.00	19.71	C
ATOM	6919	CD1	LEU	C	451	51.690	103.552	36.253	1.00	19.71	C
ATOM	6920	CD2	LEU	C	451	49.176	103.691	36.298	1.00	19.71	C
ATOM	6921	C	LEU	C	451	49.816	105.328	32.109	1.00	27.08	C
ATOM	6922	O	LEU	C	451	49.077	106.287	31.853	1.00	27.08	C
ATOM	6923	N	ILE	C	452	50.895	105.038	31.405	1.00	36.86	C
ATOM	6924	CA	ILE	C	452	51.296	105.792	30.239	1.00	36.86	C
ATOM	6925	CB	ILE	C	452	52.493	105.071	29.542	1.00	22.11	C
ATOM	6926	CG2	ILE	C	452	52.370	105.206	28.045	1.00	22.11	C
ATOM	6927	CG1	ILE	C	452	53.844	105.556	30.105	1.00	22.11	C
ATOM	6928	CD	ILE	C	452	54.210	106.997	29.790	1.00	22.11	C
ATOM	6929	C	ILE	C	452	50.093	105.843	29.303	1.00	36.86	C
ATOM	6930	O	ILE	C	452	49.896	106.821	28.593	1.00	36.86	C
ATOM	6931	N	THR	C	453	49.279	104.789	29.341	1.00	54.44	C
ATOM	6932	CA	THR	C	453	48.100	104.651	28.485	1.00	54.44	C
ATOM	6933	CB	THR	C	453	48.107	103.306	27.814	1.00	17.58	C
ATOM	6934	OG1	THR	C	453	48.664	103.451	26.507	1.00	17.58	C

ATOM	6935	CG2	THR	C	453	46.702	102.730	27.743	1.00	17.58	C
ATOM	6936	C	THR	C	453	46.726	104.813	29.111	1.00	54.44	C
ATOM	6937	O	THR	C	453	46.531	104.450	30.266	1.00	54.44	C
ATOM	6938	N	SER	C	454	45.762	105.294	28.319	1.00	53.99	C
ATOM	6939	CA	SER	C	454	44.395	105.521	28.804	1.00	53.99	C
ATOM	6940	CB	SER	C	454	44.306	106.909	29.430	1.00	46.82	C
ATOM	6941	OG	SER	C	454	44.811	107.883	28.534	1.00	46.82	C
ATOM	6942	C	SER	C	454	43.327	105.416	27.719	1.00	53.99	C
ATOM	6943	O	SER	C	454	43.647	105.469	26.531	1.00	53.99	C
ATOM	6944	N	LEU	C	455	42.061	105.289	28.134	1.00	33.07	C
ATOM	6945	CA	LEU	C	455	40.932	105.188	27.197	1.00	33.07	C
ATOM	6946	CB	LEU	C	455	39.746	104.446	27.832	1.00	56.68	C
ATOM	6947	CG	LEU	C	455	39.930	103.450	28.995	1.00	56.68	C
ATOM	6948	CD1	LEU	C	455	38.787	102.452	28.960	1.00	56.68	C
ATOM	6949	CD2	LEU	C	455	41.250	102.699	28.894	1.00	56.68	C
ATOM	6950	C	LEU	C	455	40.513	106.614	26.843	1.00	33.07	C
ATOM	6951	O	LEU	C	455	41.369	107.479	26.731	1.00	33.07	C
ATOM	6952	N	ALA	C	456	39.219	106.866	26.665	1.00	73.31	C
ATOM	6953	CA	ALA	C	456	38.726	108.215	26.343	1.00	73.31	C
ATOM	6954	CB	ALA	C	456	39.063	108.596	24.904	1.00	5.07	C
ATOM	6955	C	ALA	C	456	37.226	108.245	26.521	1.00	73.31	C
ATOM	6956	O	ALA	C	456	36.607	107.203	26.723	1.00	73.31	C
ATOM	6957	N	ALA	C	457	36.642	109.437	26.455	1.00	39.05	C
ATOM	6958	CA	ALA	C	457	35.188	109.584	26.568	1.00	39.05	C
ATOM	6959	CB	ALA	C	457	34.832	110.573	27.649	1.00	55.73	C
ATOM	6960	C	ALA	C	457	34.762	110.118	25.219	1.00	39.05	C
ATOM	6961	O	ALA	C	457	35.588	110.161	24.298	1.00	39.05	C
ATOM	6962	N	TYR	C	458	33.500	110.513	25.070	1.00	33.57	C
ATOM	6963	CA	TYR	C	458	33.127	111.057	23.775	1.00	33.57	C
ATOM	6964	CB	TYR	C	458	31.603	111.238	23.660	1.00	98.79	C
ATOM	6965	CG	TYR	C	458	31.043	112.606	23.985	1.00	98.79	C
ATOM	6966	CD1	TYR	C	458	31.519	113.753	23.345	1.00	98.79	C
ATOM	6967	CE1	TYR	C	458	30.981	114.998	23.613	1.00	98.79	C
ATOM	6968	CD2	TYR	C	458	30.000	112.749	24.904	1.00	98.79	C
ATOM	6969	CE2	TYR	C	458	29.445	113.994	25.177	1.00	98.79	C
ATOM	6970	CZ	TYR	C	458	29.945	115.117	24.528	1.00	98.79	C
ATOM	6971	OH	TYR	C	458	29.425	116.368	24.792	1.00	98.79	C
ATOM	6972	C	TYR	C	458	33.900	112.384	23.646	1.00	33.57	C
ATOM	6973	O	TYR	C	458	34.089	113.090	24.640	1.00	33.57	C
ATOM	6974	N	ALA	C	459	34.359	112.703	22.433	1.00	22.09	C
ATOM	6975	CA	ALA	C	459	35.141	113.915	22.172	1.00	22.09	C
ATOM	6976	CB	ALA	C	459	36.318	113.935	23.038	1.00	5.07	C
ATOM	6977	C	ALA	C	459	35.619	113.939	20.745	1.00	22.09	C
ATOM	6978	O	ALA	C	459	35.297	113.049	19.979	1.00	22.09	C
ATOM	6979	N	ALA	C	460	36.423	114.932	20.392	1.00	62.32	C
ATOM	6980	CA	ALA	C	460	36.937	115.042	19.027	1.00	62.32	C
ATOM	6981	CB	ALA	C	460	37.821	113.826	18.696	1.00	5.07	C
ATOM	6982	C	ALA	C	460	35.789	115.152	18.009	1.00	62.32	C
ATOM	6983	O	ALA	C	460	34.907	114.290	17.972	1.00	62.32	C
ATOM	6984	N	ALA	C	461	35.803	116.219	17.200	1.00	100.07	C
ATOM	6985	CA	ALA	C	461	34.795	116.489	16.146	1.00	100.07	C
ATOM	6986	CB	ALA	C	461	33.401	115.988	16.560	1.00	72.39	C
ATOM	6987	C	ALA	C	461	34.717	117.976	15.792	1.00	100.07	C
ATOM	6988	O	ALA	C	461	34.484	118.819	16.661	1.00	100.07	C
ATOM	6989	N	ALA	C	462	34.900	118.274	14.507	1.00	100.07	C
ATOM	6990	CA	ALA	C	462	34.877	119.642	13.972	1.00	100.07	C
ATOM	6991	CB	ALA	C	462	33.968	120.547	14.823	1.00	100.07	C
ATOM	6992	C	ALA	C	462	36.298	120.215	13.914	1.00	100.07	C
ATOM	6993	O	ALA	C	462	36.855	120.618	14.938	1.00	100.07	C
ATOM	6994	N	ALA	C	463	36.871	120.249	12.709	1.00	100.07	C
ATOM	6995	CA	ALA	C	463	38.230	120.739	12.488	1.00	100.07	C
ATOM	6996	CB	ALA	C	463	38.453	122.082	13.236	1.00	13.60	C
ATOM	6997	C	ALA	C	463	39.252	119.670	12.935	1.00	100.07	C
ATOM	6998	O	ALA	C	463	39.422	119.395	14.134	1.00	100.07	C
ATOM	6999	N	ALA	C	464	39.910	119.058	11.950	1.00	100.07	C
ATOM	7000	CA	ALA	C	464	40.909	118.012	12.182	1.00	100.07	C
ATOM	7001	CB	ALA	C	464	41.279	117.336	10.864	1.00	95.64	C
ATOM	7002	C	ALA	C	464	42.158	118.568	12.837	1.00	100.07	C
ATOM	7003	O	ALA	C	464	42.126	119.656	13.407	1.00	100.07	C
ATOM	7004	N	GLY	C	465	43.257	117.822	12.741	1.00	89.40	C
ATOM	7005	CA	GLY	C	465	44.505	118.256	13.349	1.00	89.40	C
ATOM	7006	C	GLY	C	465	44.156	119.057	14.579	1.00	89.40	C
ATOM	7007	O	GLY	C	465	44.640	120.176	14.756	1.00	89.40	C
ATOM	7008	N	ALA	C	466	43.282	118.470	15.401	1.00	67.76	C
ATOM	7009	CA	ALA	C	466	42.772	119.082	16.623	1.00	67.76	C
ATOM	7010	CB	ALA	C	466	41.215	119.152	16.548	1.00	5.07	C
ATOM	7011	C	ALA	C	466	43.236	118.345	17.895	1.00	67.76	C
ATOM	7012	O	ALA	C	466	44.175	117.539	17.850	1.00	67.76	C
ATOM	7013	N	ALA	C	467	42.580	118.629	19.022	1.00	45.17	C
ATOM	7014	CA	ALA	C	467	42.933	118.010	20.305	1.00	45.17	C
ATOM	7015	CB	ALA	C	467	43.887	118.928	21.065	1.00	100.07	C
ATOM	7016	C	ALA	C	467	41.765	117.594	21.230	1.00	45.17	C
ATOM	7017	O	ALA	C	467	41.395	118.307	22.171	1.00	45.17	C
ATOM	7018	N	ALA	C	468	41.227	116.409	20.961	1.00	62.76	C

ATOM	7019	CA	ALA	C	468	40.130	115.828	21.721	1.00	62.76	C
ATOM	7020	CB	ALA	C	468	40.641	115.345	23.074	1.00	5.07	C
ATOM	7021	C	ALA	C	468	38.944	116.783	21.878	1.00	62.76	C
ATOM	7022	O	ALA	C	468	37.877	116.520	21.335	1.00	62.76	C
ATOM	7023	N	THR	C	469	39.121	117.870	22.624	1.00	53.13	C
ATOM	7024	CA	THR	C	469	38.073	118.887	22.818	1.00	53.13	C
ATOM	7025	CB	THR	C	469	38.116	119.904	21.648	1.00	41.18	C
ATOM	7026	OG1	THR	C	469	37.438	119.380	20.501	1.00	41.18	C
ATOM	7027	CG2	THR	C	469	39.539	120.150	21.251	1.00	41.18	C
ATOM	7028	C	THR	C	469	36.608	118.427	23.009	1.00	53.13	C
ATOM	7029	O	THR	C	469	35.883	118.210	22.044	1.00	53.13	C
ATOM	7030	N	PRO	C	470	36.150	118.307	24.266	1.00	61.21	C
ATOM	7031	CD	PRO	C	470	36.879	118.665	25.492	1.00	86.46	C
ATOM	7032	CA	PRO	C	470	34.780	117.881	24.586	1.00	61.21	C
ATOM	7033	CB	PRO	C	470	34.792	117.798	26.097	1.00	86.46	C
ATOM	7034	CG	PRO	C	470	35.756	118.877	26.464	1.00	86.46	C
ATOM	7035	C	PRO	C	470	33.738	118.876	24.095	1.00	61.21	C
ATOM	7036	O	PRO	C	470	34.092	119.911	23.528	1.00	61.21	C
ATOM	7037	N	TYR	C	471	32.458	118.568	24.314	1.00	26.59	C
ATOM	7038	CA	TYR	C	471	31.387	119.458	23.878	1.00	26.59	C
ATOM	7039	CB	TYR	C	471	30.331	118.715	23.047	1.00	99.64	C
ATOM	7040	CG	TYR	C	471	30.826	117.874	21.878	1.00	99.64	C
ATOM	7041	CD1	TYR	C	471	29.916	117.176	21.083	1.00	99.64	C
ATOM	7042	CE1	TYR	C	471	30.341	116.342	20.068	1.00	99.64	C
ATOM	7043	CD2	TYR	C	471	32.188	117.715	21.609	1.00	99.64	C
ATOM	7044	CE2	TYR	C	471	32.625	116.878	20.591	1.00	99.64	C
ATOM	7045	CZ	TYR	C	471	31.694	116.192	19.829	1.00	99.64	C
ATOM	7046	OH	TYR	C	471	32.107	115.328	18.843	1.00	99.64	C
ATOM	7047	C	TYR	C	471	30.716	119.983	25.122	1.00	26.59	C
ATOM	7048	O	TYR	C	471	30.468	119.212	26.047	1.00	26.59	C
ATOM	7049	N	ARG	C	472	30.422	121.282	25.152	1.00	42.17	C
ATOM	7050	CA	ARG	C	472	29.752	121.883	26.310	1.00	42.17	C
ATOM	7051	CB	ARG	C	472	30.780	122.539	27.238	1.00	67.73	C
ATOM	7052	CG	ARG	C	472	30.962	121.786	28.542	1.00	67.73	C
ATOM	7053	CD	ARG	C	472	32.154	122.279	29.336	1.00	67.73	C
ATOM	7054	NE	ARG	C	472	33.422	122.064	28.644	1.00	67.73	C
ATOM	7055	CZ	ARG	C	472	34.582	121.856	29.263	1.00	67.73	C
ATOM	7056	NH1	ARG	C	472	34.637	121.831	30.589	1.00	67.73	C
ATOM	7057	NH2	ARG	C	472	35.691	121.675	28.559	1.00	67.73	C
ATOM	7058	C	ARG	C	472	28.644	122.886	25.957	1.00	42.17	C
ATOM											

ATOM	7103	CB	ALA	C	481	33.818	120.556	19.419	1.00	88.09	C
ATOM	7104	C	ALA	C	481	34.670	122.263	21.038	1.00	51.87	C
ATOM	7105	O	ALA	C	481	35.693	122.326	20.345	1.00	51.87	C
ATOM	7106	N	ALA	C	482	34.557	122.843	22.230	1.00	70.79	C
ATOM	7107	CA	ALA	C	482	35.626	123.651	22.811	1.00	70.79	C
ATOM	7108	CB	ALA	C	482	35.196	124.184	24.189	1.00	84.75	C
ATOM	7109	C	ALA	C	482	36.975	122.951	22.921	1.00	70.79	C
ATOM	7110	O	ALA	C	482	37.091	121.889	23.532	1.00	70.79	C
ATOM	7111	N	ALA	C	483	37.990	123.562	22.313	1.00	39.85	C
ATOM	7112	CA	ALA	C	483	39.346	123.041	22.359	1.00	39.85	C
ATOM	7113	CB	ALA	C	483	40.277	123.933	21.568	1.00	66.62	C
ATOM	7114	C	ALA	C	483	39.744	123.045	23.822	1.00	39.85	C
ATOM	7115	O	ALA	C	483	39.102	123.695	24.643	1.00	39.85	C
ATOM	7116	N	ALA	C	484	40.789	122.314	24.165	1.00	45.49	C
ATOM	7117	CA	ALA	C	484	41.210	122.296	25.553	1.00	45.49	C
ATOM	7118	CB	ALA	C	484	42.503	121.510	25.698	1.00	83.60	C
ATOM	7119	C	ALA	C	484	41.432	123.750	25.930	1.00	45.49	C
ATOM	7120	O	ALA	C	484	41.262	124.135	27.078	1.00	45.49	C
ATOM	7121	N	ALA	C	485	41.788	124.552	24.928	1.00	62.49	C
ATOM	7122	CA	ALA	C	485	42.062	125.975	25.103	1.00	62.49	C
ATOM	7123	CB	ALA	C	485	42.387	126.604	23.766	1.00	75.01	C
ATOM	7124	C	ALA	C	485	40.939	126.750	25.776	1.00	62.49	C
ATOM	7125	O	ALA	C	485	41.170	127.828	26.316	1.00	62.49	C
ATOM	7126	N	ALA	C	486	39.721	126.224	25.735	1.00	68.78	C
ATOM	7127	CA	ALA	C	486	38.613	126.907	26.385	1.00	68.78	C
ATOM	7128	CB	ALA	C	486	37.278	126.262	26.000	1.00	45.92	C
ATOM	7129	C	ALA	C	486	38.856	126.800	27.890	1.00	68.78	C
ATOM	7130	O	ALA	C	486	38.016	126.309	28.646	1.00	68.78	C
ATOM	7131	N	ALA	C	487	40.039	127.248	28.302	1.00	100.07	C
ATOM	7132	CA	ALA	C	487	40.446	127.243	29.700	1.00	100.07	C
ATOM	7133	CB	ALA	C	487	41.950	126.961	29.820	1.00	8.81	C
ATOM	7134	C	ALA	C	487	40.123	128.623	30.260	1.00	100.07	C
ATOM	7135	O	ALA	C	487	40.944	129.249	30.936	1.00	100.07	C
ATOM	7136	N	ALA	C	488	38.918	129.092	29.957	1.00	100.07	C
ATOM	7137	CA	ALA	C	488	38.450	130.394	30.411	1.00	100.07	C
ATOM	7138	CB	ALA	C	488	38.844	131.475	29.380	1.00	44.69	C
ATOM	7139	C	ALA	C	488	36.930	130.314	30.560	1.00	100.07	C
ATOM	7140	O	ALA	C	488	36.400	129.370	31.149	1.00	100.07	C
ATOM	7141	N	ALA	C	489	36.247	131.322	30.033	1.00	77.46	C
ATOM	7142	CA	ALA	C	489	34.791	131.404	30.034	1.00	77.46	C
ATOM	7143	CB	ALA	C							

ATOM	7187	CA	ALA	C	498	14.913	125.352	36.579	1.00100.07	C
ATOM	7188	CB	ALA	C	498	15.534	126.509	37.346	1.00 16.63	C
ATOM	7189	C	ALA	C	498	14.296	125.850	35.275	1.00100.07	C
ATOM	7190	O	ALA	C	498	14.681	126.900	34.752	1.00100.07	C
ATOM	7191	N	ALA	C	499	13.337	125.082	34.760	1.00100.07	C
ATOM	7192	CA	ALA	C	499	12.665	125.397	33.497	1.00100.07	C
ATOM	7193	CB	ALA	C	499	12.067	126.811	33.541	1.00100.07	C
ATOM	7194	C	ALA	C	499	13.732	125.300	32.412	1.00100.07	C
ATOM	7195	O	ALA	C	499	14.198	124.208	32.083	1.00100.07	C
ATOM	7196	N	ALA	C	500	14.108	126.445	31.858	1.00 75.11	C
ATOM	7197	CA	ALA	C	500	15.155	126.509	30.850	1.00 75.11	C
ATOM	7198	CB	ALA	C	500	14.578	126.921	29.504	1.00 12.62	C
ATOM	7199	C	ALA	C	500	16.107	127.576	31.381	1.00 75.11	C
ATOM	7200	O	ALA	C	500	17.127	127.884	30.767	1.00 75.11	C
ATOM	7201	N	ALA	C	501	15.755	128.109	32.553	1.00 84.78	C
ATOM	7202	CA	ALA	C	501	16.515	129.157	33.237	1.00 84.78	C
ATOM	7203	CB	ALA	C	501	15.555	130.250	33.722	1.00100.07	C
ATOM	7204	C	ALA	C	501	17.323	128.619	34.419	1.00 84.78	C
ATOM	7205	O	ALA	C	501	16.785	127.908	35.263	1.00 84.78	C
ATOM	7206	N	ALA	C	502	18.605	128.980	34.479	1.00 33.77	C
ATOM	7207	CA	ALA	C	502	19.498	128.538	35.547	1.00 33.77	C
ATOM	7208	CB	ALA	C	502	20.659	129.513	35.677	1.00 5.07	C
ATOM	7209	C	ALA	C	502	18.741	128.414	36.868	1.00 33.77	C
ATOM	7210	O	ALA	C	502	18.237	127.345	37.200	1.00 33.77	C
ATOM	7211	N	ALA	C	503	18.675	129.503	37.622	1.00 99.79	C
ATOM	7212	CA	ALA	C	503	17.937	129.537	38.885	1.00 99.79	C
ATOM	7213	CB	ALA	C	503	16.459	129.284	38.612	1.00100.07	C
ATOM	7214	C	ALA	C	503	18.399	128.645	40.042	1.00 99.79	C
ATOM	7215	O	ALA	C	503	17.743	127.655	40.386	1.00 99.79	C
ATOM	7216	N	ALA	C	504	19.518	129.028	40.649	1.00 99.95	C
ATOM	7217	CA	ALA	C	504	20.092	128.337	41.799	1.00 99.95	C
ATOM	7218	CB	ALA	C	504	20.960	127.181	41.365	1.00 27.97	C
ATOM	7219	C	ALA	C	504	20.937	129.401	42.454	1.00 99.95	C
ATOM	7220	O	ALA	C	504	21.435	129.226	43.562	1.00 99.95	C
ATOM	7221	N	GLY	C	505	21.092	130.507	41.731	1.00 49.62	C
ATOM	7222	CA	GLY	C	505	21.855	131.636	42.220	1.00 49.62	C
ATOM	7223	C	GLY	C	505	23.106	131.257	42.983	1.00 49.62	C
ATOM	7224	O	GLY	C	505	23.434	131.872	44.006	1.00 49.62	C
ATOM	7225	N	ALA	C	506	23.797	130.235	42.483	1.00100.07	C
ATOM	7226	CA	ALA	C	506	25.042	129.741	43.076	1.00100.07	C
ATOM	7227	CB	ALA	C	506	24.738	128.744	44.194	1.00100.07	C
ATOM	7228	C	ALA	C	506	25.861	129.072	41.965	1.00100.07	C
ATOM	7229	O	ALA	C	506	26.998	129.464	41.686	1.00100.07	C
ATOM	7230	N	ALA	C	507	25.266	128.062	41.338	1.00 69.47	C
ATOM	7231	CA	ALA	C	507	25.898	127.355	40.239	1.00 69.47	C
ATOM	7232	CB	ALA	C	507	25.920	128.259	39.011	1.00 11.32	C
ATOM	7233	C	ALA	C	507	27.312	126.907	40.565	1.00 69.47	C
ATOM	7234	O	ALA	C	507	28.223	127.733	40.571	1.00 69.47	C
ATOM	7235	N	ALA	C	508	27.516	125.619	40.842	1.00 58.95	C
ATOM	7236	CA	ALA	C	508	28.880	125.157	41.123	1.00 58.95	C
ATOM	7237	CB	ALA	C	508	28.894	123.738	41.710	1.00 5.07	C
ATOM	7238	C	ALA	C	508	29.537	125.155	39.765	1.00 58.95	C
ATOM	7239	O	ALA	C	508	28.899	124.805	38.771	1.00 58.95	C
ATOM	7240	N	ALA	C	509	30.796	125.557	39.696	1.00 36.57	C
ATOM	7241	CA	ALA	C	509	31.445	125.563	38.396	1.00 36.57	C
ATOM	7242	CB	ALA	C	509	30.896	126.694	37.549	1.00 16.32	C
ATOM	7243	C	ALA	C	509	32.957	125.642	38.454	1.00 36.57	C
ATOM	7244	O	ALA	C	509	33.561	125.630	39.535	1.00 36.57	C
ATOM	7245	N	ALA	C	510	33.559	125.722	37.272	1.00 16.98	C
ATOM	7246	CA	ALA	C	510	35.004	125.779	37.156	1.00 16.98	C
ATOM	7247	CB	ALA	C	510	35.538	124.450	36.616	1.00 80.19	C
ATOM	7248	C	ALA	C	510	35.442	126.906	36.250	1.00 16.98	C
ATOM	7249	O	ALA	C	510	34.740	127.298	35.319	1.00 16.98	C
ATOM	7250	N	ALA	C	511	36.626	127.416	36.533	1.00 77.42	C
ATOM	7251	CA	ALA	C	511	37.192	128.482	35.742	1.00 77.42	C
ATOM	7252	CB	ALA	C	511	36.873	129.836	36.380	1.00 5.07	C
ATOM	7253	C	ALA	C	511	38.695	128.215	35.701	1.00 77.42	C
ATOM	7254	O	ALA	C	511	39.383	128.268	36.725	1.00 77.42	C
ATOM	7255	N	ALA	C	512	39.181	127.888	34.506	1.00 67.81	C
ATOM	7256	CA	ALA	C	512	40.586	127.585	34.273	1.00 67.81	C
ATOM	7257	CB	ALA	C	512	41.474	128.721	34.786	1.00 94.60	C
ATOM	7258	C	ALA	C	512	40.970	126.270	34.933	1.00 67.81	C
ATOM	7259	O	ALA	C	512	41.817	125.540	34.410	1.00 67.81	C
ATOM	7260	N	ALA	C	513	40.341	125.963	36.068	1.00 86.56	C
ATOM	7261	CA	ALA	C	513	40.619	124.724	36.803	1.00 86.56	C
ATOM	7262	CB	ALA	C	513	42.117	124.620	37.101	1.00100.07	C
ATOM	7263	C	ALA	C	513	39.832	124.619	38.110	1.00 86.56	C
ATOM	7264	O	ALA	C	513	39.083	123.666	38.326	1.00 86.56	C
ATOM	7265	N	ALA	C	514	40.030	125.606	38.978	1.00 54.32	C
ATOM	7266	CA	ALA	C	514	39.378	125.673	40.275	1.00 54.32	C
ATOM	7267	CB	ALA	C	514	39.504	127.077	40.841	1.00 86.08	C
ATOM	7268	C	ALA	C	514	37.916	125.279	40.219	1.00 54.32	C
ATOM	7269	O	ALA	C	514	37.228	125.524	39.231	1.00 54.32	C
ATOM	7270	N	ALA	C	515	37.456	124.653	41.293	1.00 75.05	C

ATOM	7271	CA	ALA	C	515	36.066	124.249	41.408	1.00	75.05	C
ATOM	7272	CB	ALA	C	515	35.958	122.984	42.266	1.00	19.56	C
ATOM	7273	C	ALA	C	515	35.369	125.430	42.089	1.00	75.05	C
ATOM	7274	O	ALA	C	515	34.714	125.272	43.119	1.00	75.05	C
ATOM	7275	N	ALA	C	516	35.527	126.615	41.502	1.00	33.77	C
ATOM	7276	CA	ALA	C	516	34.962	127.851	42.041	1.00	33.77	C
ATOM	7277	CB	ALA	C	516	35.715	129.048	41.450	1.00	5.07	C
ATOM	7278	C	ALA	C	516	33.453	128.032	41.853	1.00	33.77	C
ATOM	7279	O	ALA	C	516	32.946	127.977	40.732	1.00	33.77	C
ATOM	7280	N	ALA	C	517	32.765	128.268	42.978	1.00	29.64	C
ATOM	7281	CA	ALA	C	517	31.307	128.477	43.060	1.00	29.64	C
ATOM	7282	CB	ALA	C	517	30.881	128.551	44.514	1.00	26.55	C
ATOM	7283	C	ALA	C	517	30.825	129.731	42.319	1.00	29.64	C
ATOM	7284	O	ALA	C	517	30.688	130.813	42.903	1.00	29.64	C
ATOM	7285	N	ALA	C	518	30.559	129.531	41.026	1.00	100.07	C
ATOM	7286	CA	ALA	C	518	30.105	130.538	40.058	1.00	100.07	C
ATOM	7287	CB	ALA	C	518	29.288	129.857	38.961	1.00	96.52	C
ATOM	7288	C	ALA	C	518	29.348	131.760	40.542	1.00	100.07	C
ATOM	7289	O	ALA	C	518	28.626	131.722	41.537	1.00	100.07	C
ATOM	7290	N	GLY	C	519	29.514	132.843	39.791	1.00	96.72	C
ATOM	7291	CA	GLY	C	519	28.853	134.086	40.117	1.00	96.72	C
ATOM	7292	C	GLY	C	519	27.441	134.128	39.568	1.00	96.72	C
ATOM	7293	O	GLY	C	519	26.932	135.203	39.257	1.00	96.72	C
ATOM	7294	N	ALA	C	520	26.810	132.962	39.439	1.00	72.63	C
ATOM	7295	CA	ALA	C	520	25.435	132.866	38.934	1.00	72.63	C
ATOM	7296	CB	ALA	C	520	24.493	133.622	39.859	1.00	80.18	C
ATOM	7297	C	ALA	C	520	25.254	133.364	37.499	1.00	72.63	C
ATOM	7298	O	ALA	C	520	24.257	133.054	36.850	1.00	72.63	C
ATOM	7299	N	ALA	C	521	26.224	134.142	37.027	1.00	89.56	C
ATOM	7300	CA	ALA	C	521	26.226	134.708	35.684	1.00	89.56	C
ATOM	7301	CB	ALA	C	521	26.827	133.704	34.708	1.00	35.64	C
ATOM	7302	C	ALA	C	521	24.850	135.167	35.194	1.00	89.56	C
ATOM	7303	O	ALA	C	521	24.307	136.171	35.671	1.00	89.56	C
ATOM	7304	N	VAL	C	522	24.303	134.441	34.219	1.00	100.07	C
ATOM	7305	CA	VAL	C	522	22.991	134.745	33.634	1.00	100.07	C
ATOM	7306	CB	VAL	C	522	23.114	134.979	32.084	1.00	83.70	C
ATOM	7307	CG1	VAL	C	522	21.784	135.464	31.502	1.00	83.70	C
ATOM	7308	CG2	VAL	C	522	24.215	136.011	31.801	1.00	83.70	C
ATOM	7309	C	VAL	C	522	21.975	133.616	33.924	1.00	100.07	C
ATOM	7310	O	VAL	C	522	21.917	133.090	35.045	1.00	100.07	C
ATOM	7311	N									

ATOM	7355	CG1	VAL	C	529	30.811	124.848	30.985	1.00100.07	C
ATOM	7356	CG2	VAL	C	529	31.989	126.578	29.650	1.00100.07	C
ATOM	7357	C	VAL	C	529	28.375	125.984	30.621	1.00 66.83	C
ATOM	7358	O	VAL	C	529	28.020	126.516	31.673	1.00 66.83	C
ATOM	7359	N	GLU	C	530	27.869	124.851	30.156	1.00100.07	C
ATOM	7360	CA	GLU	C	530	26.824	124.147	30.850	1.00100.07	C
ATOM	7361	CB	GLU	C	530	25.593	124.011	29.960	1.00 94.66	C
ATOM	7362	CG	GLU	C	530	24.485	123.198	30.601	1.00 94.66	C
ATOM	7363	CD	GLU	C	530	24.056	123.758	31.951	1.00 94.66	C
ATOM	7364	OE1	GLU	C	530	24.922	123.987	32.826	1.00 94.66	C
ATOM	7365	OE2	GLU	C	530	22.842	123.966	32.140	1.00 94.66	C
ATOM	7366	C	GLU	C	530	27.294	122.764	31.267	1.00100.07	C
ATOM	7367	O	GLU	C	530	26.890	122.282	32.321	1.00100.07	C
ATOM	7368	N	PHE	C	531	28.138	122.132	30.446	1.00 64.70	C
ATOM	7369	CA	PHE	C	531	28.644	120.780	30.717	1.00 64.70	C
ATOM	7370	CB	PHE	C	531	28.806	120.533	32.213	1.00 98.58	C
ATOM	7371	CG	PHE	C	531	30.204	120.650	32.693	1.00 98.58	C
ATOM	7372	CD1	PHE	C	531	30.876	121.860	32.625	1.00 98.58	C
ATOM	7373	CD2	PHE	C	531	30.845	119.553	33.248	1.00 98.58	C
ATOM	7374	CE1	PHE	C	531	32.169	121.973	33.106	1.00 98.58	C
ATOM	7375	CE2	PHE	C	531	32.128	119.647	33.730	1.00 98.58	C
ATOM	7376	CZ	PHE	C	531	32.794	120.858	33.663	1.00 98.58	C
ATOM	7377	C	PHE	C	531	27.686	119.734	30.165	1.00 64.70	C
ATOM	7378	O	PHE	C	531	26.923	119.120	30.910	1.00 64.70	C
ATOM	7379	N	MET	C	532	27.726	119.542	28.852	1.00 37.81	C
ATOM	7380	CA	MET	C	532	26.874	118.577	28.192	1.00 37.81	C
ATOM	7381	CB	MET	C	532	27.489	118.185	26.858	1.00 90.89	C
ATOM	7382	CG	MET	C	532	26.510	117.504	25.972	1.00 90.89	C
ATOM	7383	SD	MET	C	532	24.970	118.422	26.043	1.00 90.89	C
ATOM	7384	CE	MET	C	532	24.008	117.459	27.253	1.00 90.89	C
ATOM	7385	C	MET	C	532	26.735	117.358	29.082	1.00 37.81	C
ATOM	7386	O	MET	C	532	27.728	116.724	29.408	1.00 37.81	C
ATOM	7387	N	ASP	C	533	25.506	117.066	29.500	1.00 43.33	C
ATOM	7388	CA	ASP	C	533	25.176	115.920	30.356	1.00 43.33	C
ATOM	7389	CB	ASP	C	533	24.084	115.102	29.673	1.00100.07	C
ATOM	7390	CG	ASP	C	533	23.404	114.145	30.613	1.00100.07	C
ATOM	7391	OD1	ASP	C	533	22.954	114.605	31.689	1.00100.07	C
ATOM	7392	OD2	ASP	C	533	23.311	112.942	30.272	1.00100.07	C
ATOM	7393	C	ASP	C	533	26.370	115.020	30.706	1.00 43.33	C
ATOM	7394	O	ASP	C	533	26.489	113.890	30.228	1.00 43.33	C
ATOM	7395	N	VAL	C	534	27.235	115.541	31.568	1.00 25.67	C
ATOM	7396	CA	VAL	C	534	28.456	114.874	32.004	1.00 25.67	C
ATOM	7397	CB	VAL	C	534	29.076	115.609	33.183	1.00100.07	C
ATOM	7398	CG1	VAL	C	534	30.326	114.886	33.644	1.00100.07	C
ATOM	7399	CG2	VAL	C	534	29.381	117.024	32.789	1.00100.07	C
ATOM	7400	C	VAL	C	534	28.352	113.427	32.416	1.00 25.67	C
ATOM	7401	O	VAL	C	534	27.803	113.136	33.484	1.00 25.67	C
ATOM	7402	N	SER	C	535	28.918	112.547	31.583	1.00 30.45	C
ATOM	7403	CA	SER	C	535	28.946	111.100	31.822	1.00 30.45	C
ATOM	7404	CB	SER	C	535	27.842	110.674	32.796	1.00100.07	C
ATOM	7405	OG	SER	C	535	26.559	110.974	32.270	1.00100.07	C
ATOM	7406	C	SER	C	535	28.810	110.267	30.548	1.00 30.45	C
ATOM	7407	O	SER	C	535	27.719	110.145	29.977	1.00 30.45	C
ATOM	7408	N	PRO	C	536	29.919	109.660	30.104	1.00 87.03	C
ATOM	7409	CD	PRO	C	536	29.947	108.621	29.055	1.00100.07	C
ATOM	7410	CA	PRO	C	536	31.223	109.746	30.760	1.00 87.03	C
ATOM	7411	CB	PRO	C	536	31.902	108.452	30.347	1.00100.07	C
ATOM	7412	CG	PRO	C	536	31.440	108.309	28.935	1.00100.07	C
ATOM	7413	C	PRO	C	536	32.028	110.958	30.326	1.00 87.03	C
ATOM	7414	O	PRO	C	536	33.232	111.023	30.602	1.00 87.03	C
ATOM	7415	N	LYS	C	537	31.389	111.901	29.630	1.00 27.01	C
ATOM	7416	CA	LYS	C	537	32.111	113.087	29.219	1.00 27.01	C
ATOM	7417	CB	LYS	C	537	31.162	114.239	28.909	1.00 57.11	C
ATOM	7418	CG	LYS	C	537	31.877	115.472	28.347	1.00 57.11	C
ATOM	7419	CD	LYS	C	537	31.083	116.769	28.515	1.00 57.11	C
ATOM	7420	CE	LYS	C	537	31.019	117.179	29.977	1.00 57.11	C
ATOM	7421	NZ	LYS	C	537	30.491	118.556	30.180	1.00 57.11	C
ATOM	7422	C	LYS	C	537	32.747	113.347	30.543	1.00 27.01	C
ATOM	7423	O	LYS	C	537	32.089	113.120	31.557	1.00 27.01	C
ATOM	7424	N	GLN	C	538	33.998	113.778	30.585	1.00 77.89	C
ATOM	7425	CA	GLN	C	538	34.623	114.035	31.884	1.00 77.89	C
ATOM	7426	CB	GLN	C	538	33.738	114.961	32.738	1.00 99.92	C
ATOM	7427	CG	GLN	C	538	34.161	115.106	34.209	1.00 99.92	C
ATOM	7428	CD	GLN	C	538	34.642	116.512	34.562	1.00 99.92	C
ATOM	7429	OE1	GLN	C	538	33.972	117.506	34.268	1.00 99.92	C
ATOM	7430	NE2	GLN	C	538	35.807	116.598	35.203	1.00 99.92	C
ATOM	7431	C	GLN	C	538	34.910	112.752	32.661	1.00 77.89	C
ATOM	7432	O	GLN	C	538	35.965	112.150	32.473	1.00 77.89	C
ATOM	7433	N	VAL	C	539	33.992	112.324	33.532	1.00 98.72	C
ATOM	7434	CA	VAL	C	539	34.255	111.113	34.305	1.00 98.72	C
ATOM	7435	CB	VAL	C	539	33.118	110.796	35.351	1.00 23.12	C
ATOM	7436	CG1	VAL	C	539	32.004	110.010	34.722	1.00 23.12	C
ATOM	7437	CG2	VAL	C	539	33.698	110.045	36.531	1.00 23.12	C
ATOM	7438	C	VAL	C	539	34.513	109.925	33.369	1.00 98.72	C

ATOM	7439	O	VAL	C	539	33.641	109.456	32.638	1.00	98.72	C
ATOM	7440	N	ALA	C	540	35.774	109.506	33.385	1.00	88.30	C
ATOM	7441	CA	ALA	C	540	36.330	108.398	32.614	1.00	88.30	C
ATOM	7442	CB	ALA	C	540	36.431	107.154	33.516	1.00	100.07	C
ATOM	7443	C	ALA	C	540	35.758	107.993	31.253	1.00	88.30	C
ATOM	7444	O	ALA	C	540	34.873	108.636	30.682	1.00	88.30	C
ATOM	7445	N	SER	C	541	36.316	106.883	30.774	1.00	38.21	C
ATOM	7446	CA	SER	C	541	36.031	106.254	29.492	1.00	38.21	C
ATOM	7447	CB	SER	C	541	36.844	104.962	29.378	1.00	89.88	C
ATOM	7448	OG	SER	C	541	36.477	104.210	28.232	1.00	89.88	C
ATOM	7449	C	SER	C	541	34.609	105.942	29.075	1.00	38.21	C
ATOM	7450	O	SER	C	541	33.662	106.051	29.843	1.00	38.21	C
ATOM	7451	N	LEU	C	542	34.500	105.547	27.812	1.00	99.80	C
ATOM	7452	CA	LEU	C	542	33.240	105.174	27.201	1.00	99.80	C
ATOM	7453	CB	LEU	C	542	33.456	104.793	25.724	1.00	75.91	C
ATOM	7454	CG	LEU	C	542	32.458	103.831	25.052	1.00	75.91	C
ATOM	7455	CD1	LEU	C	542	31.112	104.494	24.846	1.00	75.91	C
ATOM	7456	CD2	LEU	C	542	33.015	103.391	23.722	1.00	75.91	C
ATOM	7457	C	LEU	C	542	32.720	103.974	27.948	1.00	99.80	C
ATOM	7458	O	LEU	C	542	31.526	103.866	28.205	1.00	99.80	C
ATOM	7459	N	ASN	C	543	33.633	103.084	28.320	1.00	45.16	C
ATOM	7460	CA	ASN	C	543	33.232	101.861	28.988	1.00	45.16	C
ATOM	7461	CB	ASN	C	543	33.892	100.665	28.302	1.00	31.59	C
ATOM	7462	CG	ASN	C	543	35.270	100.403	28.814	1.00	31.59	C
ATOM	7463	OD1	ASN	C	543	36.081	101.322	28.923	1.00	31.59	C
ATOM	7464	ND2	ASN	C	543	35.549	99.149	29.146	1.00	31.59	C
ATOM	7465	C	ASN	C	543	33.474	101.796	30.490	1.00	45.16	C
ATOM	7466	O	ASN	C	543	34.131	100.881	30.991	1.00	45.16	C
ATOM	7467	N	THR	C	544	32.912	102.761	31.205	1.00	77.59	C
ATOM	7468	CA	THR	C	544	33.026	102.823	32.652	1.00	77.59	C
ATOM	7469	CB	THR	C	544	34.288	103.652	33.069	1.00	53.19	C
ATOM	7470	OG1	THR	C	544	34.200	104.061	34.438	1.00	53.19	C
ATOM	7471	CG2	THR	C	544	34.452	104.849	32.178	1.00	53.19	C
ATOM	7472	C	THR	C	544	31.717	103.418	33.171	1.00	77.59	C
ATOM	7473	O	THR	C	544	31.579	103.726	34.352	1.00	77.59	C
ATOM	7474	N	ASN	C	545	30.753	103.561	32.260	1.00	46.72	C
ATOM	7475	CA	ASN	C	545	29.419	104.072	32.588	1.00	46.72	C
ATOM	7476	CB	ASN	C	545	28.846	104.912	31.461	1.00	64.40	C
ATOM	7477	CG	ASN	C	545	29.657	106.127	31.191	1.00	64.40	C
ATOM	7478	OD1	ASN	C	545	29.461	107.170	31.812	1.00	64.40	C
ATOM	7479	ND2	ASN	C	545	30.599	106.005	30.267	1.00	64.40	C
ATOM	7480	C	ASN	C	545	28.535	102.857	32.755	1.00	46.72	C
ATOM	7481	O	ASN	C	545	27.357	102.957	33.122	1.00	46.72	C
ATOM	7482	N	LEU	C	546	29.103	101.701	32.441	1.00	51.64	C
ATOM	7483	CA	LEU	C	546	28.359	100.471	32.594	1.00	51.64	C
ATOM	7484	CB	LEU	C	546	29.008	99.333	31.795	1.00	67.44	C
ATOM	7485	CG	LEU	C	546	29.403	99.578	30.331	1.00	67.44	C
ATOM	7486	CD1	LEU	C	546	29.607	98.236	29.664	1.00	67.44	C
ATOM	7487	CD2	LEU	C	546	28.343	100.352	29.585	1.00	67.44	C
ATOM	7488	C	LEU	C	546	28.421	100.200	34.095	1.00	51.64	C
ATOM	7489	O	LEU	C	546	28.235	99.069	34.549	1.00	51.64	C
ATOM	7490	N	ILE	C	547	28.702	101.262	34.852	1.00	46.71	C
ATOM	7491	CA	ILE	C	547	28.782	101.186	36.304	1.00	46.71	C
ATOM	7492	CB	ILE	C	547	30.131	101.669	36.834	1.00	63.78	C
ATOM	7493	CG2	ILE	C	547	30.102	101.656	38.338	1.00	63.78	C
ATOM	7494	CG1	ILE	C	547	31.246	100.738	36.377	1.00	63.78	C
ATOM	7495	CD	ILE	C	547	32.602	101.049	37.001	1.00	63.78	C
ATOM	7496	C	ILE	C	547	27.693	102.032	36.960	1.00	46.71	C
ATOM	7497	O	ILE	C	547	27.864	103.230	37.164	1.00	46.71	C
ATOM	7498	N	PRO	C	548	26.571	101.401	37.330	1.00	86.11	C
ATOM	7499	CD	PRO	C	548	26.375	99.946	37.374	1.00	48.30	C
ATOM	7500	CA	PRO	C	548	25.439	102.062	37.961	1.00	86.11	C
ATOM	7501	CB	PRO	C	548	24.546	100.889	38.354	1.00	48.30	C
ATOM	7502	CG	PRO	C	548	25.505	99.797	38.578	1.00	48.30	C
ATOM	7503	C	PRO	C	548	25.738	102.995	39.123	1.00	86.11	C
ATOM	7504	O	PRO	C	548	24.984	103.939	39.369	1.00	86.11	C
ATOM	7505	N	PHE	C	549	26.812	102.766	39.859	1.00	21.96	C
ATOM	7506	CA	PHE	C	549	27.050	103.692	40.960	1.00	21.96	C
ATOM	7507	CB	PHE	C	549	26.572	103.059	42.275	1.00	66.52	C
ATOM	7508	CG	PHE	C	549	25.065	102.980	42.392	1.00	66.52	C
ATOM	7509	CD1	PHE	C	549	24.322	102.171	41.540	1.00	66.52	C
ATOM	7510	CD2	PHE	C	549	24.386	103.756	43.313	1.00	66.52	C
ATOM	7511	CE1	PHE	C	549	22.926	102.143	41.598	1.00	66.52	C
ATOM	7512	CE2	PHE	C	549	22.992	103.731	43.377	1.00	66.52	C
ATOM	7513	CZ	PHE	C	549	22.265	102.923	42.515	1.00	66.52	C
ATOM	7514	C	PHE	C	549	28.492	104.187	41.041	1.00	21.96	C
ATOM	7515	O	PHE	C	549	29.106	104.276	42.110	1.00	21.96	C
ATOM	7516	N	LEU	C	550	29.022	104.527	39.874	1.00	46.97	C
ATOM	7517	CA	LEU	C	550	30.382	105.016	39.775	1.00	46.97	C
ATOM	7518	CB	LEU	C	550	30.617	105.644	38.396	1.00	31.66	C
ATOM	7519	CG	LEU	C	550	32.022	106.137	38.042	1.00	31.66	C
ATOM	7520	CD1	LEU	C	550	33.081	105.267	38.708	1.00	31.66	C
ATOM	7521	CD2	LEU	C	550	32.183	106.139	36.520	1.00	31.66	C
ATOM	7522	C	LEU	C	550	30.553	106.030	40.873	1.00	46.97	C

ATOM	7523	O	LEU	C	550	31.656	106.263	41.346	1.00	46.97	C
ATOM	7524	N	GLU	C	551	29.436	106.618	41.283	1.00	44.84	C
ATOM	7525	CA	GLU	C	551	29.442	107.598	42.349	1.00	44.84	C
ATOM	7526	CB	GLU	C	551	28.027	108.102	42.594	1.00	99.26	C
ATOM	7527	CG	GLU	C	551	27.216	108.214	41.331	1.00	99.26	C
ATOM	7528	CD	GLU	C	551	26.115	109.231	41.453	1.00	99.26	C
ATOM	7529	OE1	GLU	C	551	26.442	110.419	41.654	1.00	99.26	C
ATOM	7530	OE2	GLU	C	551	24.929	108.850	41.347	1.00	99.26	C
ATOM	7531	C	GLU	C	551	29.975	106.890	43.591	1.00	44.84	C
ATOM	7532	O	GLU	C	551	31.178	106.866	43.827	1.00	44.84	C
ATOM	7533	N	HIS	C	552	29.078	106.308	44.377	1.00	62.12	C
ATOM	7534	CA	HIS	C	552	29.467	105.580	45.581	1.00	62.12	C
ATOM	7535	CB	HIS	C	552	28.235	104.955	46.218	1.00	38.24	C
ATOM	7536	CG	HIS	C	552	27.002	105.779	46.059	1.00	38.24	C
ATOM	7537	CD2	HIS	C	552	26.139	105.892	45.024	1.00	38.24	C
ATOM	7538	ND1	HIS	C	552	26.555	106.648	47.030	1.00	38.24	C
ATOM	7539	CE1	HIS	C	552	25.467	107.258	46.599	1.00	38.24	C
ATOM	7540	NE2	HIS	C	552	25.194	106.818	45.384	1.00	38.24	C
ATOM	7541	C	HIS	C	552	30.412	104.472	45.144	1.00	62.12	C
ATOM	7542	O	HIS	C	552	30.109	103.293	45.282	1.00	62.12	C
ATOM	7543	N	ASP	C	553	31.563	104.852	44.620	1.00	74.17	C
ATOM	7544	CA	ASP	C	553	32.513	103.881	44.131	1.00	74.17	C
ATOM	7545	CB	ASP	C	553	31.994	103.313	42.802	1.00	24.87	C
ATOM	7546	CG	ASP	C	553	31.498	101.878	42.926	1.00	24.87	C
ATOM	7547	OD1	ASP	C	553	31.012	101.481	44.008	1.00	24.87	C
ATOM	7548	OD2	ASP	C	553	31.596	101.146	41.925	1.00	24.87	C
ATOM	7549	C	ASP	C	553	33.859	104.577	43.958	1.00	74.17	C
ATOM	7550	O	ASP	C	553	34.060	105.377	43.038	1.00	74.17	C
ATOM	7551	N	ASP	C	554	34.776	104.272	44.868	1.00	18.17	C
ATOM	7552	CA	ASP	C	554	36.111	104.856	44.854	1.00	18.17	C
ATOM	7553	CB	ASP	C	554	36.932	104.285	46.013	1.00	45.40	C
ATOM	7554	CG	ASP	C	554	38.371	104.734	45.975	1.00	45.40	C
ATOM	7555	OD1	ASP	C	554	39.035	104.475	44.955	1.00	45.40	C
ATOM	7556	OD2	ASP	C	554	38.847	105.342	46.954	1.00	45.40	C
ATOM	7557	C	ASP	C	554	36.845	104.614	43.539	1.00	18.17	C
ATOM	7558	O	ASP	C	554	37.094	103.472	43.173	1.00	18.17	C
ATOM	7559	N	ALA	C	555	37.203	105.691	42.846	1.00	34.34	C
ATOM	7560	CA	ALA	C	555	37.926	105.597	41.580	1.00	34.34	C
ATOM	7561	CB	ALA	C	555	38.827	106.789	41.404	1.00	19.00	C
ATOM	7562	C	ALA	C	555	38.755	104.335	41.517	1.00	34.34	C
ATOM	7563	O	ALA	C	555	38.446	103.425	40.758	1.00	34.34	C
ATOM	7564	N	ASN	C	556	39.810	104.284	42.319	1.00	29.63	C
ATOM	7565	CA	ASN	C	556	40.681	103.116	42.356	1.00	29.63	C
ATOM	7566	CB	ASN	C	556	41.334	103.000	43.732	1.00	71.66	C
ATOM	7567	CG	ASN	C	556	42.832	102.801	43.643	1.00	71.66	C
ATOM	7568	OD1	ASN	C	556	43.301	101.768	43.169	1.00	71.66	C
ATOM	7569	ND2	ASN	C	556	43.594	103.797	44.090	1.00	71.66	C
ATOM	7570	C	ASN	C	556	39.969	101.798	41.993	1.00	29.63	C
ATOM	7571	O	ASN	C	556	40.089	101.325	40.855	1.00	29.63	C
ATOM	7572	N	ALA	C	557	39.232	101.201	42.934	1.00	54.73	C
ATOM	7573	CA	ALA	C	557	38.533	99.947	42.630	1.00	54.73	C
ATOM	7574	CB	ALA	C	557	37.690	99.458	43.844	1.00	5.07	C
ATOM	7575	C	ALA	C	557	37.644	100.141	41.394	1.00	54.73	C
ATOM	7576	O	ALA	C	557	37.436	99.214	40.612	1.00	54.73	C
ATOM	7577	N	ALA	C	558	37.137	101.352	41.202	1.00	39.66	C
ATOM	7578	CA	ALA	C	558	36.294	101.610	40.048	1.00	39.66	C
ATOM	7579	CB	ALA	C	558	35.826	103.058	40.029	1.00	39.20	C
ATOM	7580	C	ALA	C	558	37.071	101.296	38.782	1.00	39.66	C
ATOM	7581	O	ALA	C	558	36.537	100.660	37.870	1.00	39.66	C
ATOM	7582	N	LEU	C	559	38.330	101.731	38.716	1.00	11.82	C
ATOM	7583	CA	LEU	C	559	39.141	101.469	37.524	1.00	11.82	C
ATOM	7584	CB	LEU	C	559	40.577	101.995	37.696	1.00	16.16	C
ATOM	7585	CG	LEU	C	559	41.761	101.011	37.705	1.00	16.16	C
ATOM	7586	CD1	LEU	C	559	41.950	100.452	36.320	1.00	16.16	C
ATOM	7587	CD2	LEU	C	559	43.045	101.689	38.123	1.00	16.16	C
ATOM	7588	C	LEU	C	559	39.161	99.967	37.376	1.00	11.82	C
ATOM	7589	O	LEU	C	559	38.990	99.435	36.279	1.00	11.82	C
ATOM	7590	N	MET	C	560	39.339	99.300	38.515	1.00	13.81	C
ATOM	7591	CA	MET	C	560	39.414	97.849	38.594	1.00	13.81	C
ATOM	7592	CB	MET	C	560	39.743	97.442	40.014	1.00	42.89	C
ATOM	7593	CG	MET	C	560	40.569	96.205	40.106	1.00	42.89	C
ATOM	7594	SD	MET	C	560	41.238	96.047	41.758	1.00	42.89	C
ATOM	7595	CE	MET	C	560	42.037	97.722	41.973	1.00	42.89	C
ATOM	7596	C	MET	C	560	38.138	97.153	38.157	1.00	13.81	C
ATOM	7597	O	MET	C	560	38.024	95.935	38.275	1.00	13.81	C
ATOM	7598	N	GLY	C	561	37.181	97.940	37.668	1.00	10.47	C
ATOM	7599	CA	GLY	C	561	35.912	97.418	37.187	1.00	10.47	C
ATOM	7600	C	GLY	C	561	35.818	97.899	35.759	1.00	10.47	C
ATOM	7601	O	GLY	C	561	35.297	97.218	34.883	1.00	10.47	C
ATOM	7602	N	SER	C	562	36.340	99.090	35.516	1.00	24.81	C
ATOM	7603	CA	SER	C	562	36.330	99.619	34.167	1.00	24.81	C
ATOM	7604	CB	SER	C	562	36.930	101.022	34.142	1.00	62.72	C
ATOM	7605	OG	SER	C	562	35.974	101.982	34.558	1.00	62.72	C
ATOM	7606	C	SER	C	562	37.109	98.693	33.222	1.00	24.81	C

ATOM	7607	O	SER	C	562	36.697	98.465	32.083	1.00	24.81	C
ATOM	7608	N	ASN	C	563	38.239	98.168	33.688	1.00	10.93	C
ATOM	7609	CA	ASN	C	563	39.037	97.259	32.864	1.00	10.93	C
ATOM	7610	CB	ASN	C	563	40.478	97.127	33.390	1.00	27.67	C
ATOM	7611	CG	ASN	C	563	41.293	98.406	33.230	1.00	27.67	C
ATOM	7612	OD1	ASN	C	563	42.277	98.627	33.944	1.00	27.67	C
ATOM	7613	ND2	ASN	C	563	40.898	99.244	32.286	1.00	27.67	C
ATOM	7614	C	ASN	C	563	38.327	95.947	33.042	1.00	10.93	C
ATOM	7615	O	ASN	C	563	37.815	95.361	32.103	1.00	10.93	C
ATOM	7616	N	MET	C	564	38.277	95.526	34.292	1.00	15.33	C
ATOM	7617	CA	MET	C	564	37.652	94.282	34.680	1.00	15.33	C
ATOM	7618	CB	MET	C	564	36.993	94.463	36.043	1.00	33.53	C
ATOM	7619	CG	MET	C	564	36.804	93.175	36.812	1.00	33.53	C
ATOM	7620	SD	MET	C	564	38.294	92.697	37.662	1.00	33.53	C
ATOM	7621	CE	MET	C	564	39.226	92.028	36.304	1.00	33.53	C
ATOM	7622	C	MET	C	564	36.632	93.741	33.665	1.00	15.33	C
ATOM	7623	O	MET	C	564	36.609	92.541	33.397	1.00	15.33	C
ATOM	7624	N	GLN	C	565	35.793	94.613	33.108	1.00	39.06	C
ATOM	7625	CA	GLN	C	565	34.793	94.184	32.131	1.00	39.06	C
ATOM	7626	CB	GLN	C	565	33.836	95.322	31.797	1.00	43.60	C
ATOM	7627	CG	GLN	C	565	32.579	95.396	32.619	1.00	43.60	C
ATOM	7628	CD	GLN	C	565	31.681	96.528	32.142	1.00	43.60	C
ATOM	7629	OE1	GLN	C	565	32.043	97.702	32.249	1.00	43.60	C
ATOM	7630	NE2	GLN	C	565	30.513	96.181	31.602	1.00	43.60	C
ATOM	7631	C	GLN	C	565	35.376	93.669	30.812	1.00	39.06	C
ATOM	7632	O	GLN	C	565	35.095	92.535	30.425	1.00	39.06	C
ATOM	7633	N	THR	C	566	36.168	94.503	30.128	1.00	12.13	C
ATOM	7634	CA	THR	C	566	36.761	94.137	28.833	1.00	12.13	C
ATOM	7635	CB	THR	C	566	38.150	94.755	28.583	1.00	7.27	C
ATOM	7636	OG1	THR	C	566	38.058	96.180	28.557	1.00	7.27	C
ATOM	7637	CG2	THR	C	566	38.673	94.306	27.241	1.00	7.27	C
ATOM	7638	C	THR	C	566	36.959	92.655	28.700	1.00	12.13	C
ATOM	7639	O	THR	C	566	36.752	92.099	27.627	1.00	12.13	C
ATOM	7640	N	GLN	C	567	37.374	92.033	29.803	1.00	17.53	C
ATOM	7641	CA	GLN	C	567	37.634	90.601	29.861	1.00	17.53	C
ATOM	7642	CB	GLN	C	567	38.664	90.340	30.968	1.00	67.31	C
ATOM	7643	CG	GLN	C	567	39.641	91.526	31.163	1.00	67.31	C
ATOM	7644	CD	GLN	C	567	40.991	91.138	31.769	1.00	67.31	C
ATOM	7645	OE1	GLN	C	567	41.734	90.337	31.195	1.00	67.31	C
ATOM	7646	NE2	GLN	C	567	41.317	91.715	32.923	1.00	67.31	C
ATOM	7647	C	GLN	C	567	36.328	89.845	30.110	1.00	17.53	C
ATOM	7648	O	GLN	C	567	36.272	88.900	30.885	1.00	17.53	C
ATOM	7649	N	ALA	C	568	35.286	90.282	29.418	1.00	24.15	C
ATOM	7650	CA	ALA	C	568	33.954	89.712	29.517	1.00	24.15	C
ATOM	7651	CB	ALA	C	568	33.059	90.322	28.462	1.00	67.54	C
ATOM	7652	C	ALA	C	568	33.887	88.205	29.411	1.00	24.15	C
ATOM	7653	O	ALA	C	568	33.919	87.526	30.424	1.00	24.15	C
ATOM	7654	N	VAL	C	569	33.770	87.700	28.182	1.00	12.59	C
ATOM	7655	CA	VAL	C	569	33.661	86.261	27.868	1.00	12.59	C
ATOM	7656	CB	VAL	C	569	34.095	85.348	29.017	1.00	21.13	C
ATOM	7657	CG1	VAL	C	569	33.927	83.908	28.615	1.00	21.13	C
ATOM	7658	CG2	VAL	C	569	35.520	85.602	29.362	1.00	21.13	C
ATOM	7659	C	VAL	C	569	32.219	85.900	27.553	1.00	12.59	C
ATOM	7660	O	VAL	C	569	31.514	85.362	28.396	1.00	12.59	C
ATOM	7661	N	PRO	C	570	31.769	86.176	26.321	1.00	35.39	C
ATOM	7662	CD	PRO	C	570	32.588	86.473	25.137	1.00	74.38	C
ATOM	7663	CA	PRO	C	570	30.397	85.874	25.924	1.00	35.39	C
ATOM	7664	CB	PRO	C	570	30.456	85.939	24.397	1.00	74.38	C
ATOM	7665	CG	PRO	C	570	31.890	85.670	24.083	1.00	74.38	C
ATOM	7666	C	PRO	C	570	29.906	84.539	26.443	1.00	35.39	C
ATOM	7667	O	PRO	C	570	30.664	83.568	26.495	1.00	35.39	C
ATOM	7668	N	LEU	C	571	28.630	84.518	26.831	1.00	33.95	C
ATOM	7669	CA	LEU	C	571	27.971	83.330	27.372	1.00	33.95	C
ATOM	7670	CB	LEU	C	571	27.508	83.600	28.816	1.00	10.32	C
ATOM	7671	CG	LEU	C	571	28.562	83.994	29.866	1.00	10.32	C
ATOM	7672	CD1	LEU	C	571	29.173	85.305	29.463	1.00	10.32	C
ATOM	7673	CD2	LEU	C	571	27.950	84.129	31.252	1.00	10.32	C
ATOM	7674	C	LEU	C	571	26.768	82.909	26.512	1.00	33.95	C
ATOM	7675	O	LEU	C	571	26.221	83.718	25.761	1.00	33.95	C
ATOM	7676	N	ILE	C	572	26.384	81.636	26.629	1.00	47.12	C
ATOM	7677	CA	ILE	C	572	25.251	81.056	25.901	1.00	47.12	C
ATOM	7678	CB	ILE	C	572	24.997	79.581	26.317	1.00	48.48	C
ATOM	7679	CG2	ILE	C	572	25.477	78.643	25.246	1.00	48.48	C
ATOM	7680	CG1	ILE	C	572	25.719	79.268	27.626	1.00	48.48	C
ATOM	7681	CD	ILE	C	572	25.270	80.112	28.819	1.00	48.48	C
ATOM	7682	C	ILE	C	572	23.972	81.829	26.182	1.00	47.12	C
ATOM	7683	O	ILE	C	572	23.140	82.039	25.299	1.00	47.12	C
ATOM	7684	N	ARG	C	573	23.825	82.246	27.431	1.00	32.55	C
ATOM	7685	CA	ARG	C	573	22.656	82.991	27.866	1.00	32.55	C
ATOM	7686	CB	ARG	C	573	21.923	82.192	28.929	1.00	40.55	C
ATOM	7687	CG	ARG	C	573	22.003	80.690	28.738	1.00	40.55	C
ATOM	7688	CD	ARG	C	573	21.791	79.987	30.064	1.00	40.55	C
ATOM	7689	NE	ARG	C	573	20.407	79.593	30.339	1.00	40.55	C
ATOM	7690	CZ	ARG	C	573	19.327	80.363	30.189	1.00	40.55	C

ATOM	7691	NH1	ARG	C	573	19.417	81.615	29.748	1.00	40.55	C
ATOM	7692	NH2	ARG	C	573	18.138	79.866	30.503	1.00	40.55	C
ATOM	7693	C	ARG	C	573	23.145	84.294	28.468	1.00	32.55	C
ATOM	7694	O	ARG	C	573	22.933	84.551	29.658	1.00	32.55	C
ATOM	7695	N	ALA	C	574	23.815	85.110	27.657	1.00	30.93	C
ATOM	7696	CA	ALA	C	574	24.322	86.384	28.155	1.00	30.93	C
ATOM	7697	CB	ALA	C	574	24.866	87.214	27.023	1.00	67.20	C
ATOM	7698	C	ALA	C	574	23.147	87.080	28.812	1.00	30.93	C
ATOM	7699	O	ALA	C	574	22.037	86.559	28.793	1.00	30.93	C
ATOM	7700	N	GLN	C	575	23.366	88.243	29.399	1.00	34.78	C
ATOM	7701	CA	GLN	C	575	22.261	88.942	30.037	1.00	34.78	C
ATOM	7702	CB	GLN	C	575	21.855	88.261	31.358	1.00	54.90	C
ATOM	7703	CG	GLN	C	575	21.124	86.920	31.217	1.00	54.90	C
ATOM	7704	CD	GLN	C	575	20.546	86.406	32.531	1.00	54.90	C
ATOM	7705	OE1	GLN	C	575	21.250	86.299	33.532	1.00	54.90	C
ATOM	7706	NE2	GLN	C	575	19.257	86.079	32.526	1.00	54.90	C
ATOM	7707	C	GLN	C	575	22.618	90.389	30.310	1.00	34.78	C
ATOM	7708	O	GLN	C	575	23.762	90.713	30.634	1.00	34.78	C
ATOM	7709	N	ALA	C	576	21.638	91.265	30.148	1.00	16.83	C
ATOM	7710	CA	ALA	C	576	21.867	92.660	30.403	1.00	16.83	C
ATOM	7711	CB	ALA	C	576	20.782	93.492	29.776	1.00	86.29	C
ATOM	7712	C	ALA	C	576	21.800	92.751	31.908	1.00	16.83	C
ATOM	7713	O	ALA	C	576	21.265	91.850	32.560	1.00	16.83	C
ATOM	7714	N	PRO	C	577	22.385	93.810	32.487	1.00	73.42	C
ATOM	7715	CD	PRO	C	577	23.386	94.675	31.841	1.00	80.42	C
ATOM	7716	CA	PRO	C	577	22.383	94.023	33.937	1.00	73.42	C
ATOM	7717	CB	PRO	C	577	23.661	94.822	34.165	1.00	80.42	C
ATOM	7718	CG	PRO	C	577	23.743	95.646	32.949	1.00	80.42	C
ATOM	7719	C	PRO	C	577	21.119	94.796	34.336	1.00	73.42	C
ATOM	7720	O	PRO	C	577	20.716	95.731	33.642	1.00	73.42	C
ATOM	7721	N	VAL	C	578	20.500	94.383	35.444	1.00	99.09	C
ATOM	7722	CA	VAL	C	578	19.272	95.004	35.945	1.00	99.09	C
ATOM	7723	CB	VAL	C	578	18.863	94.421	37.317	1.00	100.07	C
ATOM	7724	CG1	VAL	C	578	17.598	95.097	37.813	1.00	100.07	C
ATOM	7725	CG2	VAL	C	578	18.625	92.925	37.202	1.00	100.07	C
ATOM	7726	C	VAL	C	578	19.426	96.511	36.078	1.00	99.09	C
ATOM	7727	O	VAL	C	578	18.650	97.284	35.521	1.00	99.09	C
ATOM	7728	N	VAL	C	579	20.415	96.927	36.839	1.00	45.44	C
ATOM	7729	CA	VAL	C	579	20.688	98.339	36.987	1.00	45.44	C
ATOM	7730	CB	VAL	C	579	21.447	98.569	38.277	1.00	100.07	C
ATOM	7731	CG1	VAL	C	579	21.223	99.976	38.774	1.00	100.07	C
ATOM	7732	CG2	VAL	C	579	21.039	97.541	39.303	1.00	100.07	C
ATOM	7733	C	VAL	C	579	21.647	98.529	35.816	1.00	45.44	C
ATOM	7734	O	VAL	C	579	22.797	98.136	35.952	1.00	45.44	C
ATOM	7735	N	MET	C	580	21.230	99.110	34.688	1.00	79.50	C
ATOM	7736	CA	MET	C	580	22.168	99.142	33.569	1.00	79.50	C
ATOM	7737	CB	MET	C	580	21.563	98.394	32.373	1.00	100.07	C
ATOM	7738	CG	MET	C	580	20.210	98.889	31.904	1.00	82.47	C
ATOM	7739	SD	MET	C	580	19.895	98.194	30.273	1.00	82.47	C
ATOM	7740	CE	MET	C	580	20.423	99.579	29.251	1.00	82.47	C
ATOM	7741	C	MET	C	580	22.916	100.362	33.033	1.00	79.50	C
ATOM	7742	O	MET	C	580	24.029	100.216	32.529	1.00	79.50	C
ATOM	7743	N	ILE	C	581	22.334	101.560	33.120	1.00	65.73	C
ATOM	7744	CA	ILE	C	581	22.975	102.787	32.630	1.00	65.73	C
ATOM	7745	CB	ILE	C	581	24.498	102.859	32.951	1.00	100.07	C
ATOM	7746	CG2	ILE	C	581	24.958	104.302	32.849	1.00	100.07	C
ATOM	7747	CG1	ILE	C	581	24.806	102.273	34.341	1.00	100.07	C
ATOM	7748	CD	ILE	C	581	23.853	102.712	35.427	1.00	100.07	C
ATOM	7749	C	ILE	C	581	22.857	103.009	31.142	1.00	65.73	C
ATOM	7750	O	ILE	C	581	23.857	103.118	30.468	1.00	65.73	C
ATOM	7751	N	GLY	C	582	21.641	103.082	30.602	1.00	92.71	C
ATOM	7752	CA	GLY	C	582	21.451	103.312	29.180	1.00	92.71	C
ATOM	7753	C	GLY	C	582	22.516	102.818	28.210	1.00	92.71	C
ATOM	7754	O	GLY	C	582	22.376	101.748	27.644	1.00	92.71	C
ATOM	7755	N	LEU	C	583	23.556	103.625	28.010	1.00	60.27	C
ATOM	7756	CA	LEU	C	583	24.672	103.311	27.119	1.00	60.27	C
ATOM	7757	CB	LEU	C	583	25.998	103.553	27.834	1.00	91.16	C
ATOM	7758	CG	LEU	C	583	26.573	104.961	27.793	1.00	96.91	C
ATOM	7759	CD1	LEU	C	583	27.928	104.981	28.460	1.00	96.91	C
ATOM	7760	CD2	LEU	C	583	26.700	105.404	26.357	1.00	96.91	C
ATOM	7761	C	LEU	C	583	24.665	101.890	26.585	1.00	60.27	C
ATOM	7762	O	LEU	C	583	24.815	101.667	25.379	1.00	60.27	C
ATOM	7763	N	GLU	C	584	24.510	100.934	27.497	1.00	51.86	C
ATOM	7764	CA	GLU	C	584	24.494	99.514	27.168	1.00	51.86	C
ATOM	7765	CB	GLU	C	584	23.645	98.795	28.190	1.00	93.84	C
ATOM	7766	CG	GLU	C	584	23.700	99.453	29.542	1.00	99.59	C
ATOM	7767	CD	GLU	C	584	24.354	98.573	30.557	1.00	99.59	C
ATOM	7768	OE1	GLU	C	584	23.760	97.536	30.868	1.00	99.59	C
ATOM	7769	OE2	GLU	C	584	25.456	98.897	31.046	1.00	99.59	C
ATOM	7770	C	GLU	C	584	23.927	99.282	25.779	1.00	51.86	C
ATOM	7771	O	GLU	C	584	24.264	98.297	25.122	1.00	51.86	C
ATOM	7772	N	GLU	C	585	23.075	100.208	25.341	1.00	60.51	C
ATOM	7773	CA	GLU	C	585	22.408	100.139	24.045	1.00	60.51	C
ATOM	7774	CB	GLU	C	585	21.237	101.123	24.007	1.00	100.07	C

ATOM	7775	CG	GLU	C	585	20.166	100.866	25.071	1.00100.07	C
ATOM	7776	CD	GLU	C	585	18.936	101.773	24.936	1.00100.07	C
ATOM	7777	OE1	GLU	C	585	18.381	101.880	23.820	1.00100.07	C
ATOM	7778	OE2	GLU	C	585	18.513	102.370	25.952	1.00100.07	C
ATOM	7779	C	GLU	C	585	23.306	100.415	22.858	1.00 60.51	C
ATOM	7780	O	GLU	C	585	23.404	99.581	21.968	1.00 60.51	C
ATOM	7781	N	ARG	C	586	23.944	101.588	22.850	1.00 61.97	C
ATOM	7782	CA	ARG	C	586	24.821	102.019	21.758	1.00 61.97	C
ATOM	7783	CB	ARG	C	586	25.092	103.525	21.871	1.00 98.61	C
ATOM	7784	CG	ARG	C	586	25.195	104.259	20.543	1.00100.07	C
ATOM	7785	CD	ARG	C	586	24.884	105.725	20.715	1.00100.07	C
ATOM	7786	NE	ARG	C	586	23.925	106.189	19.717	1.00100.07	C
ATOM	7787	CZ	ARG	C	586	22.909	107.013	19.973	1.00100.07	C
ATOM	7788	NH1	ARG	C	586	22.710	107.467	21.206	1.00100.07	C
ATOM	7789	NH2	ARG	C	586	22.098	107.395	18.992	1.00100.07	C
ATOM	7790	C	ARG	C	586	26.149	101.266	21.660	1.00 61.97	C
ATOM	7791	O	ARG	C	586	26.610	100.981	20.556	1.00 61.97	C
ATOM	7792	N	VAL	C	587	26.760	100.943	22.801	1.00 51.35	C
ATOM	7793	CA	VAL	C	587	28.048	100.239	22.802	1.00 51.35	C
ATOM	7794	CB	VAL	C	587	28.440	99.735	24.201	1.00 47.36	C
ATOM	7795	CG1	VAL	C	587	29.595	98.751	24.098	1.00 53.11	C
ATOM	7796	CG2	VAL	C	587	28.850	100.916	25.073	1.00 53.11	C
ATOM	7797	C	VAL	C	587	28.085	99.062	21.854	1.00 51.35	C
ATOM	7798	O	VAL	C	587	29.153	98.711	21.370	1.00 51.35	C
ATOM	7799	N	VAL	C	588	26.928	98.456	21.587	1.00 37.60	C
ATOM	7800	CA	VAL	C	588	26.854	97.322	20.667	1.00 37.60	C
ATOM	7801	CB	VAL	C	588	25.792	96.316	21.070	1.00 36.67	C
ATOM	7802	CG1	VAL	C	588	25.879	95.115	20.167	1.00 42.42	C
ATOM	7803	CG2	VAL	C	588	25.971	95.915	22.504	1.00 42.42	C
ATOM	7804	C	VAL	C	588	26.451	97.822	19.298	1.00 37.60	C
ATOM	7805	O	VAL	C	588	27.110	97.555	18.295	1.00 37.60	C
ATOM	7806	N	ARG	C	589	25.349	98.555	19.273	1.00 38.69	C
ATOM	7807	CA	ARG	C	589	24.824	99.103	18.037	1.00 38.69	C
ATOM	7808	CB	ARG	C	589	23.519	99.846	18.344	1.00100.07	C
ATOM	7809	CG	ARG	C	589	22.627	98.988	19.247	1.00100.07	C
ATOM	7810	CD	ARG	C	589	21.220	99.517	19.492	1.00100.07	C
ATOM	7811	NE	ARG	C	589	20.448	98.541	20.269	1.00100.07	C
ATOM	7812	CZ	ARG	C	589	19.127	98.572	20.425	1.00100.07	C
ATOM	7813	NH1	ARG	C	589	18.410	99.534	19.860	1.00100.07	C
ATOM	7814	NH2	ARG	C	589	18.519	97.630	21.134	1.00100.07	C
ATOM	7815	C	ARG	C	589	25.862	99.998	17.392	1.00 38.69	C
ATOM	7816	O	ARG	C	589	25.555	100.815	16.531	1.00 38.69	C
ATOM	7817	N	ASP	C	590	27.101	99.821	17.830	1.00 31.50	C
ATOM	7818	CA	ASP	C	590	28.244	100.564	17.330	1.00 31.50	C
ATOM	7819	CB	ASP	C	590	28.617	101.708	18.283	1.00100.07	C
ATOM	7820	CG	ASP	C	590	27.563	102.801	18.338	1.00 99.80	C
ATOM	7821	OD1	ASP	C	590	27.195	103.343	17.275	1.00 99.80	C
ATOM	7822	OD2	ASP	C	590	27.116	103.129	19.455	1.00 99.80	C
ATOM	7823	C	ASP	C	590	29.417	99.587	17.221	1.00 31.50	C
ATOM	7824	O	ASP	C	590	30.320	99.764	16.399	1.00 31.50	C
ATOM	7825	N	SER	C	591	29.402	98.556	18.061	1.00 51.99	C
ATOM	7826	CA	SER	C	591	30.453	97.541	18.050	1.00 51.99	C
ATOM	7827	CB	SER	C	591	30.404	96.698	19.321	1.00100.07	C
ATOM	7828	OG	SER	C	591	29.322	95.776	19.273	1.00 80.96	C
ATOM	7829	C	SER	C	591	30.156	96.635	16.879	1.00 51.99	C
ATOM	7830	O	SER	C	591	30.402	95.439	16.950	1.00 51.99	C
ATOM	7831	N	LEU	C	592	29.613	97.224	15.817	1.00 23.57	C
ATOM	7832	CA	LEU	C	592	29.214	96.516	14.599	1.00 23.57	C
ATOM	7833	CB	LEU	C	592	30.106	96.919	13.421	1.00 93.77	C
ATOM	7834	CG	LEU	C	592	30.020	98.360	12.917	1.00 99.52	C
ATOM	7835	CD1	LEU	C	592	30.845	98.502	11.649	1.00 99.52	C
ATOM	7836	CD2	LEU	C	592	28.571	98.717	12.639	1.00 99.52	C
ATOM	7837	C	LEU	C	592	29.248	95.014	14.748	1.00 23.57	C
ATOM	7838	O	LEU	C	592	29.919	94.354	13.969	1.00 23.57	C
ATOM	7839	N	ALA	C	593	28.547	94.470	15.740	1.00 47.38	C
ATOM	7840	CA	ALA	C	593	28.548	93.025	15.956	1.00 47.38	C
ATOM	7841	CB	ALA	C	593	29.304	92.672	17.243	1.00 5.07	C
ATOM	7842	C	ALA	C	593	27.126	92.514	16.026	1.00 47.38	C
ATOM	7843	O	ALA	C	593	26.823	91.538	16.714	1.00 47.38	C
ATOM	7844	N	ALA	C	594	26.249	93.188	15.302	1.00 31.85	C
ATOM	7845	CA	ALA	C	594	24.850	92.807	15.276	1.00 31.85	C
ATOM	7846	CB	ALA	C	594	24.105	93.525	16.391	1.00 24.88	C
ATOM	7847	C	ALA	C	594	24.310	93.198	13.903	1.00 31.85	C
ATOM	7848	O	ALA	C	594	24.983	93.913	13.161	1.00 31.85	C
ATOM	7849	N	LEU	C	595	23.112	92.737	13.557	1.00 69.24	C
ATOM	7850	CA	LEU	C	595	22.553	93.042	12.247	1.00 69.24	C
ATOM	7851	CB	LEU	C	595	21.615	91.919	11.809	1.00100.07	C
ATOM	7852	CG	LEU	C	595	22.337	90.891	10.931	1.00 94.58	C
ATOM	7853	CD1	LEU	C	595	21.598	89.561	10.892	1.00 94.58	C
ATOM	7854	CD2	LEU	C	595	22.481	91.476	9.544	1.00 94.58	C
ATOM	7855	C	LEU	C	595	21.873	94.399	12.102	1.00 69.24	C
ATOM	7856	O	LEU	C	595	22.364	95.254	11.372	1.00 69.24	C
ATOM	7857	N	TYR	C	596	20.749	94.609	12.775	1.00100.07	C
ATOM	7858	CA	TYR	C	596	20.058	95.897	12.679	1.00100.07	C

ATOM	7943	N	ALA	C	611	16.851	86.081	6.660	1.00100.07	C
ATOM	7944	CA	ALA	C	611	16.009	86.707	5.636	1.00100.07	C
ATOM	7945	CB	ALA	C	611	14.871	87.498	6.311	1.00 39.23	C
ATOM	7946	C	ALA	C	611	16.626	87.588	4.565	1.00100.07	C
ATOM	7947	O	ALA	C	611	17.848	87.598	4.307	1.00100.07	C
ATOM	7948	N	ALA	C	612	15.733	88.331	3.928	1.00 99.99	C
ATOM	7949	CA	ALA	C	612	16.043	89.241	2.848	1.00 99.99	C
ATOM	7950	CB	ALA	C	612	15.416	88.711	1.572	1.00 59.80	C
ATOM	7951	C	ALA	C	612	15.451	90.595	3.225	1.00 99.99	C
ATOM	7952	O	ALA	C	612	15.919	91.649	2.780	1.00 99.99	C
ATOM	7953	N	ALA	C	613	14.446	90.562	4.102	1.00 84.37	C
ATOM	7954	CA	ALA	C	613	13.773	91.778	4.533	1.00 84.37	C
ATOM	7955	CB	ALA	C	613	14.670	92.551	5.454	1.00 97.27	C
ATOM	7956	C	ALA	C	613	13.474	92.580	3.265	1.00 84.37	C
ATOM	7957	O	ALA	C	613	14.145	93.557	2.948	1.00 84.37	C
ATOM	7958	N	ALA	C	614	12.463	92.131	2.536	1.00 99.71	C
ATOM	7959	CA	ALA	C	614	12.070	92.753	1.283	1.00 99.71	C
ATOM	7960	CB	ALA	C	614	11.047	91.865	0.572	1.00 98.58	C
ATOM	7961	C	ALA	C	614	11.504	94.160	1.499	1.00 99.71	C
ATOM	7962	O	ALA	C	614	10.311	94.409	1.300	1.00 99.71	C
ATOM	7963	N	ALA	C	615	12.374	95.086	1.896	1.00100.07	C
ATOM	7964	CA	ALA	C	615	11.987	96.473	2.153	1.00100.07	C
ATOM	7965	CB	ALA	C	615	13.136	97.195	2.835	1.00 80.06	C
ATOM	7966	C	ALA	C	615	11.587	97.193	0.875	1.00100.07	C
ATOM	7967	O	ALA	C	615	10.970	96.598	-0.016	1.00100.07	C
ATOM	7968	N	ALA	C	616	11.929	98.479	0.813	1.00100.07	C
ATOM	7969	CA	ALA	C	616	11.643	99.332	-0.349	1.00100.07	C
ATOM	7970	CB	ALA	C	616	11.801	100.814	0.017	1.00100.07	C
ATOM	7971	C	ALA	C	616	12.614	98.970	-1.465	1.00100.07	C
ATOM	7972	O	ALA	C	616	12.761	99.695	-2.447	1.00100.07	C
ATOM	7973	N	ALA	C	617	13.293	97.845	-1.278	1.00100.07	C
ATOM	7974	CA	ALA	C	617	14.248	97.335	-2.254	1.00100.07	C
ATOM	7975	CB	ALA	C	617	15.671	97.762	-1.890	1.00100.07	C
ATOM	7976	C	ALA	C	617	14.132	95.823	-2.244	1.00100.07	C
ATOM	7977	O	ALA	C	617	13.599	95.239	-1.301	1.00100.07	C
ATOM	7978	N	ALA	C	618	14.629	95.201	-3.307	1.00100.07	C
ATOM	7979	CA	ALA	C	618	14.583	93.751	-3.454	1.00100.07	C
ATOM	7980	CB	ALA	C	618	15.319	93.336	-4.737	1.00100.07	C
ATOM	7981	C	ALA	C	618	15.174	93.027	-2.242	1.00100.07	C
ATOM	7982	O	ALA	C	618	15.940	93.605	-1.470	1.00100.07	C
ATOM	7983	N	ALA	C	619	14.798	91.760	-2.086	1.00 92.15	C
ATOM	7984	CA	ALA	C	619	15.276	90.928	-0.994	1.00 92.15	C
ATOM	7985	CB	ALA	C	619	15.049	89.454	-1.344	1.00 50.50	C
ATOM	7986	C	ALA	C	619	16.764	91.199	-0.716	1.00 92.15	C
ATOM	7987	O	ALA	C	619	17.499	91.656	-1.601	1.00 92.15	C
ATOM	7988	N	ALA	C	620	17.203	90.923	0.514	1.00 96.86	C
ATOM	7989	CA	ALA	C	620	18.594	91.149	0.914	1.00 96.86	C
ATOM	7990	CB	ALA	C	620	18.657	92.302	1.890	1.00 84.06	C
ATOM	7991	C	ALA	C	620	19.285	89.921	1.513	1.00 96.86	C
ATOM	7992	O	ALA	C	620	18.658	89.091	2.171	1.00 96.86	C
ATOM	7993	N	ALA	C	621	20.593	89.828	1.288	1.00100.07	C
ATOM	7994	CA	ALA	C	621	21.386	88.704	1.776	1.00100.07	C
ATOM	7995	CB	ALA	C	621	22.492	88.377	0.777	1.00 92.04	C
ATOM	7996	C	ALA	C	621	21.997	88.943	3.149	1.00100.07	C
ATOM	7997	O	ALA	C	621	23.221	88.941	3.301	1.00100.07	C
ATOM	7998	N	ALA	C	622	21.145	89.150	4.148	1.00 54.52	C
ATOM	7999	CA	ALA	C	622	21.620	89.374	5.504	1.00 54.52	C
ATOM	8000	CB	ALA	C	622	20.587	90.187	6.294	1.00 13.56	C
ATOM	8001	C	ALA	C	622	21.866	88.004	6.153	1.00 54.52	C
ATOM	8002	O	ALA	C	622	20.938	87.363	6.652	1.00 54.52	C
ATOM	8003	N	ALA	C	623	23.120	87.547	6.110	1.00 43.18	C
ATOM	8004	CA	ALA	C	623	23.487	86.251	6.690	1.00 43.18	C
ATOM	8005	CB	ALA	C	623	24.431	85.480	5.737	1.00 13.47	C
ATOM	8006	C	ALA	C	623	24.143	86.421	8.059	1.00 43.18	C
ATOM	8007	O	ALA	C	623	25.019	87.267	8.238	1.00 43.18	C
ATOM	8008	N	ALA	C	624	23.710	85.616	9.024	1.00 55.35	C
ATOM	8009	CA	ALA	C	624	24.265	85.689	10.367	1.00 55.35	C
ATOM	8010	CB	ALA	C	624	23.149	85.310	11.424	1.00 5.07	C
ATOM	8011	C	ALA	C	624	25.497	84.757	10.472	1.00 55.35	C
ATOM	8012	O	ALA	C	624	25.467	83.639	9.950	1.00 55.35	C
ATOM	8013	N	ALA	C	625	26.569	85.237	11.123	1.00 43.11	C
ATOM	8014	CA	ALA	C	625	27.815	84.478	11.329	1.00 43.11	C
ATOM	8015	CB	ALA	C	625	28.944	85.410	11.736	1.00 65.80	C
ATOM	8016	C	ALA	C	625	27.651	83.381	12.383	1.00 43.11	C
ATOM	8017	O	ALA	C	625	27.222	83.638	13.509	1.00 43.11	C
ATOM	8018	N	ALA	C	626	28.024	82.166	11.992	1.00 33.96	C
ATOM	8019	CA	ALA	C	626	27.915	80.956	12.812	1.00 33.96	C
ATOM	8020	CB	ALA	C	626	28.559	79.792	12.082	1.00 93.68	C
ATOM	8021	C	ALA	C	626	28.443	81.008	14.225	1.00 33.96	C
ATOM	8022	O	ALA	C	626	27.829	81.621	15.076	1.00 33.96	C
ATOM	8023	N	ALA	C	627	29.553	80.300	14.466	1.00 41.98	C
ATOM	8024	CA	ALA	C	627	30.251	80.228	15.761	1.00 41.98	C
ATOM	8025	CB	ALA	C	627	29.982	78.866	16.461	1.00 5.07	C
ATOM	8026	C	ALA	C	627	31.762	80.397	15.491	1.00 41.98	C

ATOM	8027	O	ALA	C	627	32.518	79.419	15.508	1.00	41.98	C
ATOM	8028	N	ALA	C	628	32.190	81.636	15.245	1.00	100.07	C
ATOM	8029	CA	ALA	C	628	33.587	81.963	14.948	1.00	100.07	C
ATOM	8030	CB	ALA	C	628	33.709	83.422	14.600	1.00	100.07	C
ATOM	8031	C	ALA	C	628	34.554	81.621	16.070	1.00	100.07	C
ATOM	8032	O	ALA	C	628	34.253	80.755	16.890	1.00	100.07	C
ATOM	8033	N	ALA	C	629	35.713	82.283	16.119	1.00	24.80	C
ATOM	8034	CA	ALA	C	629	36.684	81.968	17.176	1.00	24.80	C
ATOM	8035	CB	ALA	C	629	37.117	80.502	17.042	1.00	66.11	C
ATOM	8036	C	ALA	C	629	37.919	82.863	17.237	1.00	24.80	C
ATOM	8037	O	ALA	C	629	37.807	84.089	17.159	1.00	24.80	C
ATOM	8038	N	ALA	C	630	39.076	82.212	17.420	1.00	99.68	C
ATOM	8039	CA	ALA	C	630	40.430	82.800	17.506	1.00	99.68	C
ATOM	8040	CB	ALA	C	630	41.170	82.533	16.194	1.00	88.40	C
ATOM	8041	C	ALA	C	630	40.564	84.291	17.899	1.00	99.68	C
ATOM	8042	O	ALA	C	630	39.715	85.096	17.542	1.00	99.68	C
ATOM	8043	N	ALA	C	631	41.660	84.652	18.584	1.00	60.35	C
ATOM	8044	CA	ALA	C	631	41.895	86.025	19.077	1.00	60.35	C
ATOM	8045	CB	ALA	C	631	41.838	87.057	17.936	1.00	5.07	C
ATOM	8046	C	ALA	C	631	40.702	86.171	19.989	1.00	60.35	C
ATOM	8047	O	ALA	C	631	40.819	86.388	21.200	1.00	60.35	C
ATOM	8048	N	ALA	C	632	39.551	86.027	19.349	1.00	100.07	C
ATOM	8049	CA	ALA	C	632	38.267	86.012	19.992	1.00	100.07	C
ATOM	8050	CB	ALA	C	632	37.161	86.033	18.954	1.00	5.07	C
ATOM	8051	C	ALA	C	632	38.366	84.635	20.599	1.00	100.07	C
ATOM	8052	O	ALA	C	632	37.631	83.731	20.210	1.00	100.07	C
ATOM	8053	N	ALA	C	633	39.322	84.463	21.506	1.00	100.07	C
ATOM	8054	CA	ALA	C	633	39.517	83.185	22.166	1.00	100.07	C
ATOM	8055	CB	ALA	C	633	40.373	83.372	23.399	1.00	46.63	C
ATOM	8056	C	ALA	C	633	38.140	82.628	22.541	1.00	100.07	C
ATOM	8057	O	ALA	C	633	37.993	81.436	22.813	1.00	100.07	C
ATOM	8058	N	ALA	C	634	37.139	83.510	22.537	1.00	86.54	C
ATOM	8059	CA	ALA	C	634	35.766	83.152	22.858	1.00	86.54	C
ATOM	8060	CB	ALA	C	634	35.220	84.115	23.902	1.00	100.07	C
ATOM	8061	C	ALA	C	634	34.854	83.137	21.619	1.00	86.54	C
ATOM	8062	O	ALA	C	634	34.893	84.039	20.783	1.00	86.54	C
ATOM	8063	N	ALA	C	635	34.034	82.094	21.525	1.00	19.09	C
ATOM	8064	CA	ALA	C	635	33.100	81.889	20.424	1.00	19.09	C
ATOM	8065	CB	ALA	C	635	32.201	80.710	20.742	1.00	100.07	C
ATOM	8066	C	ALA	C	635	32.258	83.115	20.163	1.00	19.09	C
ATOM	8067	O	ALA	C	635	31.335	83.387				

ATOM	8111	C	ALA	C	644	6.634	90.091	10.240	1.00	96.96	C
ATOM	8112	O	ALA	C	644	5.518	90.163	10.769	1.00	96.96	C
ATOM	8113	N	ALA	C	645	7.539	91.064	10.306	1.00	100.07	C
ATOM	8114	CA	ALA	C	645	7.309	92.321	11.017	1.00	100.07	C
ATOM	8115	CB	ALA	C	645	8.166	92.379	12.290	1.00	100.07	C
ATOM	8116	C	ALA	C	645	7.677	93.476	10.094	1.00	100.07	C
ATOM	8117	O	ALA	C	645	7.401	93.430	8.892	1.00	100.07	C
ATOM	8118	N	ALA	C	646	8.315	94.501	10.652	1.00	100.07	C
ATOM	8119	CA	ALA	C	646	8.714	95.655	9.861	1.00	100.07	C
ATOM	8120	CB	ALA	C	646	7.475	96.434	9.430	1.00	100.07	C
ATOM	8121	C	ALA	C	646	9.645	96.548	10.663	1.00	100.07	C
ATOM	8122	O	ALA	C	646	9.238	97.117	11.669	1.00	100.07	C
ATOM	8123	N	ALA	C	647	10.893	96.659	10.218	1.00	100.07	C
ATOM	8124	CA	ALA	C	647	11.902	97.489	10.877	1.00	100.07	C
ATOM	8125	CB	ALA	C	647	11.552	98.993	10.715	1.00	43.12	C
ATOM	8126	C	ALA	C	647	12.127	97.153	12.357	1.00	100.07	C
ATOM	8127	O	ALA	C	647	13.271	97.110	12.819	1.00	100.07	C
ATOM	8128	N	ALA	C	648	11.047	96.902	13.096	1.00	100.07	C
ATOM	8129	CA	ALA	C	648	11.142	96.590	14.521	1.00	100.07	C
ATOM	8130	CB	ALA	C	648	12.314	95.638	14.784	1.00	100.07	C
ATOM	8131	C	ALA	C	648	11.365	97.907	15.260	1.00	100.07	C
ATOM	8132	O	ALA	C	648	12.443	98.480	15.175	1.00	100.07	C
ATOM	8133	N	ALA	C	649	10.356	98.377	15.990	1.00	100.07	C
ATOM	8134	CA	ALA	C	649	10.475	99.652	16.710	1.00	100.07	C
ATOM	8135	CB	ALA	C	649	9.850	100.778	15.858	1.00	100.07	C
ATOM	8136	C	ALA	C	649	9.920	99.720	18.147	1.00	100.07	C
ATOM	8137	O	ALA	C	649	9.275	100.708	18.528	1.00	100.07	C
ATOM	8138	N	ALA	C	650	10.164	98.689	18.947	1.00	100.07	C
ATOM	8139	CA	ALA	C	650	9.689	98.712	20.325	1.00	100.07	C
ATOM	8140	CB	ALA	C	650	9.852	97.344	20.963	1.00	100.07	C
ATOM	8141	C	ALA	C	650	10.494	99.769	21.098	1.00	100.07	C
ATOM	8142	O	ALA	C	650	9.979	100.438	22.001	1.00	100.07	C
ATOM	8143	N	ALA	C	651	11.762	99.912	20.721	1.00	100.07	C
ATOM	8144	CA	ALA	C	651	12.680	100.885	21.319	1.00	100.07	C
ATOM	8145	CB	ALA	C	651	13.060	100.461	22.755	1.00	68.86	C
ATOM	8146	C	ALA	C	651	13.922	100.944	20.414	1.00	100.07	C
ATOM	8147	O	ALA	C	651	14.869	101.710	20.662	1.00	100.07	C
ATOM	8148	N	GLY	C	552	13.879	100.131	19.354	1.00	100.07	C
ATOM	8149	CA	GLY	C	552	14.961	100.048	18.381	1.00	100.07	C
ATOM	8150	C	GLY	C	552	14.658	99.059	17.252	1.00	100.07	C
ATOM	8151	O	GLY	C	552	13.848	98.137	17.427	1.00	100.07	C
ATOM	8152	N	ASP	C	653	15.318	99.241	16.102	1.00	100.07	C
ATOM	8153	CA	ASP	C	653	15.130	98.390	14.913	1.00	100.07	C
ATOM	8154	CB	ASP	C	653	15.022	99.277	13.663	1.00	100.07	C
ATOM	8155	CG	ASP	C	653	14.086	100.464	13.867	1.00	100.07	C
ATOM	8156	OD1	ASP	C	653	12.857	100.264	14.005	1.00	100.07	C
ATOM	8157	OD2	ASP	C	653	14.593	101.608	13.893	1.00	100.07	C
ATOM	8158	C	ASP	C	653	16.239	97.343	14.711	1.00	100.07	C
ATOM	8159	O	ASP	C	653	16.973	97.372	13.719	1.00	100.07	C
ATOM	8160	N	LEU	C	654	16.316	96.410	15.656	1.00	100.07	C
ATOM	8161	CA	LEU	C	654	17.307	95.338	15.672	1.00	100.07	C
ATOM	8162	CB	LEU	C	654	17.106	94.454	16.895	1.00	94.26	C
ATOM	8163	CG	LEU	C	654	16.722	95.116	18.216	1.00	100.01	C
ATOM	8164	CD1	LEU	C	654	15.989	94.100	19.103	1.00	100.01	C
ATOM	8165	CD2	LEU	C	654	17.971	95.663	18.905	1.00	100.01	C
ATOM	8166	C	LEU	C	654	17.275	94.418	14.474	1.00	100.07	C
ATOM	8167	O	LEU	C	654	16.743	94.747	13.417	1.00	100.07	C
ATOM	8168	N	LEU	C	655	17.850	93.241	14.706	1.00	100.07	C
ATOM	8169	CA	LEU	C	655	17.970	92.142	13.759	1.00	100.07	C
ATOM	8170	CB	LEU	C	655	18.557	92.593	12.424	1.00	88.96	C
ATOM	8171	CG	LEU	C	655	17.708	93.228	11.332	1.00	81.76	C
ATOM	8172	CD1	LEU	C	655	18.496	93.174	10.040	1.00	81.76	C
ATOM	8173	CD2	LEU	C	655	16.402	92.492	11.164	1.00	81.76	C
ATOM	8174	C	LEU	C	655	18.942	91.162	14.395	1.00	100.07	C
ATOM	8175	O	LEU	C	655	20.037	91.548	14.803	1.00	100.07	C
ATOM	8176	N	ALA	C	656	18.554	89.897	14.468	1.00	99.65	C
ATOM	8177	CA	ALA	C	656	19.421	88.897	15.068	1.00	99.65	C
ATOM	8178	CB	ALA	C	656	20.639	88.640	14.191	1.00	70.74	C
ATOM	8179	C	ALA	C	656	19.864	89.458	16.393	1.00	99.65	C
ATOM	8180	O	ALA	C	656	19.109	90.176	17.048	1.00	99.65	C
ATOM	8181	N	ASP	C	657	21.102	89.141	16.764	1.00	66.20	C
ATOM	8182	CA	ASP	C	657	21.700	89.601	18.012	1.00	66.20	C
ATOM	8183	CB	ASP	C	657	21.322	88.684	19.187	1.00	100.07	C
ATOM	8184	CG	ASP	C	657	20.486	89.390	20.262	1.00	100.07	C
ATOM	8185	OD1	ASP	C	657	20.406	90.638	20.258	1.00	100.07	C
ATOM	8186	OD2	ASP	C	657	19.921	88.687	21.129	1.00	100.07	C
ATOM	8187	C	ASP	C	657	23.189	89.521	17.778	1.00	66.20	C
ATOM	8188	O	ASP	C	657	23.638	89.676	16.647	1.00	66.20	C
ATOM	8189	N	GLY	C	658	23.948	89.255	18.833	1.00	44.26	C
ATOM	8190	CA	GLY	C	658	25.390	89.170	18.701	1.00	44.26	C
ATOM	8191	C	GLY	C	658	26.107	88.359	19.772	1.00	44.26	C
ATOM	8192	O	GLY	C	658	25.648	87.275	20.142	1.00	44.26	C
ATOM	8193	N	PRO	C	659	27.241	88.863	20.301	1.00	25.56	C
ATOM	8194	CD	PRO	C	659	28.004	90.021	19.797	1.00	70.81	C

ATOM	8195	CA	PRO	C	659	28.013	88.167	21.325	1.00	25.56	C
ATOM	8196	CB	PRO	C	659	29.435	88.553	20.967	1.00	65.06	C
ATOM	8197	CG	PRO	C	659	29.270	89.992	20.657	1.00	70.81	C
ATOM	8198	C	PRO	C	659	27.669	88.551	22.753	1.00	25.56	C
ATOM	8199	O	PRO	C	659	28.353	88.138	23.690	1.00	25.56	C
ATOM	8200	N	ALA	C	660	26.634	89.357	22.934	1.00	72.37	C
ATOM	8201	CA	ALA	C	660	26.241	89.754	24.279	1.00	72.37	C
ATOM	8202	CB	ALA	C	660	27.325	90.609	24.912	1.00	11.08	C
ATOM	8203	C	ALA	C	660	24.933	90.509	24.254	1.00	72.37	C
ATOM	8204	O	ALA	C	660	24.361	90.818	25.293	1.00	72.37	C
ATOM	8205	N	SER	C	661	24.451	90.816	23.065	1.00	88.91	C
ATOM	8206	CA	SER	C	661	23.209	91.539	22.998	1.00	88.91	C
ATOM	8207	CB	SER	C	661	22.787	91.776	21.554	1.00	73.45	C
ATOM	8208	OG	SER	C	661	22.669	90.543	20.875	1.00	73.45	C
ATOM	8209	C	SER	C	661	22.138	90.756	23.715	1.00	88.91	C
ATOM	8210	O	SER	C	661	21.669	89.721	23.238	1.00	88.91	C
ATOM	8211	N	GLU	C	662	21.789	91.230	24.903	1.00	99.95	C
ATOM	8212	CA	GLU	C	662	20.702	90.610	25.624	1.00	99.95	C
ATOM	8213	CB	GLU	C	662	20.658	91.047	27.097	1.00	100.07	C
ATOM	8214	CG	GLU	C	662	20.078	89.978	28.037	1.00	100.07	C
ATOM	8215	CD	GLU	C	662	18.634	89.639	27.735	1.00	100.07	C
ATOM	8216	OE1	GLU	C	662	17.777	90.537	27.881	1.00	100.07	C
ATOM	8217	OE2	GLU	C	662	18.353	88.482	27.352	1.00	100.07	C
ATOM	8218	C	GLU	C	662	19.653	91.330	24.803	1.00	99.95	C
ATOM	8219	O	GLU	C	662	18.768	92.007	25.319	1.00	99.95	C
ATOM	8220	N	GLU	C	663	19.816	91.202	23.492	1.00	42.52	C
ATOM	8221	CA	GLU	C	663	18.943	91.832	22.537	1.00	42.52	C
ATOM	8222	CB	GLU	C	663	17.481	91.645	22.955	1.00	100.07	C
ATOM	8223	CG	GLU	C	663	17.078	90.185	23.126	1.00	100.07	C
ATOM	8224	CD	GLU	C	663	15.632	90.013	23.557	1.00	100.07	C
ATOM	8225	OE1	GLU	C	663	14.958	91.020	23.869	1.00	100.07	C
ATOM	8226	OE2	GLU	C	663	15.168	88.857	23.589	1.00	100.07	C
ATOM	8227	C	GLU	C	663	19.321	93.293	22.563	1.00	42.52	C
ATOM	8228	O	GLU	C	663	18.893	94.024	23.448	1.00	42.52	C
ATOM	8229	N	GLY	C	664	20.163	93.697	21.619	1.00	65.62	C
ATOM	8230	CA	GLY	C	664	20.585	95.084	21.529	1.00	65.62	C
ATOM	8231	C	GLY	C	664	21.279	95.676	22.746	1.00	65.62	C
ATOM	8232	O	GLY	C	664	22.170	96.515	22.602	1.00	65.62	C
ATOM	8233	N	PHE	C	665	20.867	95.277	23.945	1.00	23.68	C
ATOM	8234	CA	PHE	C	665	21.488	95.800	25.141	1.00	23.68	C
ATOM	8235	CB	PHE	C	665	20.546	95.667	26.329	1.00	74.15	C
ATOM	8236	CG	PHE	C	665	19.294	96.475	26.176	1.00	74.15	C
ATOM	8237	CD1	PHE	C	665	18.172	95.932	25.569	1.00	74.15	C
ATOM	8238	CD2	PHE	C	665	19.263	97.811	26.562	1.00	74.15	C
ATOM	8239	CE1	PHE	C	665	17.032	96.710	25.342	1.00	74.15	C
ATOM	8240	CE2	PHE	C	665	18.134	98.596	26.342	1.00	74.15	C
ATOM	8241	CZ	PHE	C	665	17.016	98.046	25.729	1.00	74.15	C
ATOM	8242	C	PHE	C	665	22.743	94.999	25.339	1.00	23.68	C
ATOM	8243	O	PHE	C	665	22.845	93.900	24.820	1.00	23.68	C
ATOM	8244	N	LEU	C	666	23.718	95.546	26.050	1.00	42.54	C
ATOM	8245	CA	LEU	C	666	24.960	94.820	26.261	1.00	42.54	C
ATOM	8246	CB	LEU	C	666	26.082	95.803	26.597	1.00	72.22	C
ATOM	8247	CG	LEU	C	666	27.452	95.248	26.990	1.00	72.22	C
ATOM	8248	CD1	LEU	C	666	27.825	94.066	26.118	1.00	72.22	C
ATOM	8249	CD2	LEU	C	666	28.478	96.357	26.857	1.00	72.22	C
ATOM	8250	C	LEU	C	666	24.802	93.788	27.374	1.00	42.54	C
ATOM	8251	O	LEU	C	666	24.065	94.010	28.334	1.00	42.54	C
ATOM	8252	N	ALA	C	667	25.478	92.652	27.240	1.00	50.65	C
ATOM	8253	CA	ALA	C	667	25.388	91.614	28.256	1.00	50.65	C
ATOM	8254	CB	ALA	C	667	24.253	90.654	27.924	1.00	5.07	C
ATOM	8255	C	ALA	C	667	26.702	90.856	28.384	1.00	50.65	C
ATOM	8256	O	ALA	C	667	27.093	90.101	27.492	1.00	50.65	C
ATOM	8257	N	LEU	C	668	27.390	91.066	29.498	1.00	31.94	C
ATOM	8258	CA	LEU	C	668	28.650	90.390	29.725	1.00	31.94	C
ATOM	8259	CB	LEU	C	668	29.698	91.373	30.227	1.00	62.68	C
ATOM	8260	CG	LEU	C	668	29.964	92.516	29.246	1.00	62.68	C
ATOM	8261	CD1	LEU	C	668	31.213	93.289	29.664	1.00	62.68	C
ATOM	8262	CD2	LEU	C	668	30.151	91.952	27.852	1.00	62.68	C
ATOM	8263	C	LEU	C	668	28.420	89.296	30.736	1.00	31.94	C
ATOM	8264	O	LEU	C	668	28.607	88.125	30.439	1.00	31.94	C
ATOM	8265	N	GLY	C	669	28.005	89.674	31.934	1.00	40.01	C
ATOM	8266	CA	GLY	C	669	27.744	88.677	32.951	1.00	40.01	C
ATOM	8267	C	GLY	C	669	26.274	88.339	32.945	1.00	40.01	C
ATOM	8268	O	GLY	C	669	25.545	88.765	32.059	1.00	40.01	C
ATOM	8269	N	GLN	C	670	25.837	87.571	33.929	1.00	37.92	C
ATOM	8270	CA	GLN	C	670	24.442	87.200	34.024	1.00	37.92	C
ATOM	8271	CB	GLN	C	670	24.243	85.723	33.729	1.00	99.48	C
ATOM	8272	CG	GLN	C	670	24.932	85.190	32.513	1.00	99.48	C
ATOM	8273	CD	GLN	C	670	24.602	83.731	32.308	1.00	99.48	C
ATOM	8274	OE1	GLN	C	670	23.436	83.370	32.170	1.00	99.48	C
ATOM	8275	NE2	GLN	C	670	25.620	82.881	32.300	1.00	99.48	C
ATOM	8276	C	GLN	C	670	24.074	87.418	35.467	1.00	37.92	C
ATOM	8277	O	GLN	C	670	24.299	86.523	36.271	1.00	37.92	C
ATOM	8278	N	ASN	C	671	23.506	88.577	35.800	1.00	55.65	C

ATOM	8363	CD1	TYR	C	682	34.634	76.349	51.472	1.00	28.99	C
ATOM	8364	CE1	TYR	C	682	35.004	75.281	52.293	1.00	28.99	C
ATOM	8365	CD2	TYR	C	682	32.981	76.995	53.055	1.00	28.99	C
ATOM	8366	CE2	TYR	C	682	33.346	75.934	53.874	1.00	28.99	C
ATOM	8367	CZ	TYR	C	682	34.356	75.092	53.493	1.00	28.99	C
ATOM	8368	OH	TYR	C	582	34.727	74.087	54.349	1.00	28.99	C
ATOM	8369	C	TYR	C	682	34.615	80.776	50.760	1.00	19.16	C
ATOM	8370	O	TYR	C	682	34.868	80.878	49.562	1.00	19.16	C
ATOM	8371	N	ASN	C	683	34.361	81.827	51.535	1.00	18.87	C
ATOM	8372	CA	ASN	C	683	34.411	83.170	50.964	1.00	18.87	C
ATOM	8373	CB	ASN	C	683	33.009	83.791	50.764	1.00	62.59	C
ATOM	8374	CG	ASN	C	683	32.288	84.097	52.062	1.00	62.59	C
ATOM	8375	OD1	ASN	C	683	32.728	83.699	53.140	1.00	62.59	C
ATOM	8376	ND2	ASN	C	683	31.156	84.802	51.958	1.00	62.59	C
ATOM	8377	C	ASN	C	683	35.286	84.055	51.812	1.00	18.87	C
ATOM	8378	O	ASN	C	683	34.949	85.193	52.092	1.00	18.87	C
ATOM	8379	N	PHE	C	684	36.417	83.492	52.225	1.00	40.54	C
ATOM	8380	CA	PHE	C	684	37.444	84.179	53.014	1.00	40.54	C
ATOM	8381	CB	PHE	C	684	38.366	83.120	53.608	1.00	13.84	C
ATOM	8382	CG	PHE	C	684	39.643	83.642	54.244	1.00	13.84	C
ATOM	8383	CD1	PHE	C	684	39.729	83.816	55.619	1.00	13.84	C
ATOM	8384	CD2	PHE	C	684	40.807	83.761	53.490	1.00	13.84	C
ATOM	8385	CE1	PHE	C	684	40.944	84.074	56.227	1.00	13.84	C
ATOM	8386	CE2	PHE	C	684	42.026	84.022	54.103	1.00	13.84	C
ATOM	8387	CZ	PHE	C	684	42.089	84.172	55.473	1.00	13.84	C
ATOM	8388	C	PHE	C	684	38.187	85.042	51.997	1.00	40.54	C
ATOM	8389	O	PHE	C	684	38.327	84.661	50.837	1.00	40.54	C
ATOM	8390	N	GLU	C	685	38.674	86.200	52.408	1.00	88.25	C
ATOM	8391	CA	GLU	C	685	39.337	87.056	51.442	1.00	88.25	C
ATOM	8392	CB	GLU	C	685	40.546	86.360	50.829	1.00	83.88	C
ATOM	8393	CG	GLU	C	685	41.750	86.366	51.732	1.00	83.88	C
ATOM	8394	CD	GLU	C	685	42.012	87.736	52.332	1.00	83.88	C
ATOM	8395	OE1	GLU	C	685	41.819	88.745	51.623	1.00	83.88	C
ATOM	8396	OE2	GLU	C	685	42.418	87.807	53.511	1.00	83.88	C
ATOM	8397	C	GLU	C	685	38.317	87.365	50.358	1.00	88.25	C
ATOM	8398	O	GLU	C	685	37.157	87.658	50.661	1.00	88.25	C
ATOM	8399	N	ASP	C	686	38.723	87.280	49.097	1.00	55.13	C
ATOM	8400	CA	ASP	C	686	37.788	87.591	48.028	1.00	55.13	C
ATOM	8401	CB	ASP	C	686	38.470	88.488	46.995	1.00	100.07	C
ATOM	8402	CG	ASP	C	686	38.885	89.830	47.577	1.00	100.07	C
ATOM	8403	OD1	ASP	C	686	38.008	90.556	48.093	1.00	100.07	C
ATOM	8404	OD2	ASP	C	686	40.088	90.158	47.518	1.00	100.07	C
ATOM	8405	C	ASP	C	686	37.161	86.368	47.355	1.00	55.13	C
ATOM	8406	O	ASP	C	686	36.494	86.488	46.316	1.00	55.13	C
ATOM	8407	N	ALA	C	687	37.368	85.192	47.946	1.00	61.11	C
ATOM	8408	CA	ALA	C	687	36.784	83.972	47.400	1.00	61.11	C
ATOM	8409	CB	ALA	C	687	37.206	82.785	48.210	1.00	31.25	C
ATOM	8410	C	ALA	C	687	35.267	84.128	47.446	1.00	61.11	C
ATOM	8411	O	ALA	C	687	34.726	84.789	48.334	1.00	61.11	C
ATOM	8412	N	ILE	C	688	34.583	83.500	46.500	1.00	23.75	C
ATOM	8413	CA	ILE	C	688	33.139	83.615	46.407	1.00	23.75	C
ATOM	8414	CB	ILE	C	688	32.785	84.463	45.224	1.00	35.11	C
ATOM	8415	CG2	ILE	C	688	31.292	84.628	45.144	1.00	35.11	C
ATOM	8416	CG1	ILE	C	688	33.543	85.776	45.314	1.00	35.11	C
ATOM	8417	CD	ILE	C	688	33.348	86.641	44.117	1.00	35.11	C
ATOM	8418	C	ILE	C	688	32.447	82.293	46.199	1.00	23.75	C
ATOM	8419	O	ILE	C	688	32.639	81.676	45.162	1.00	23.75	C
ATOM	8420	N	VAL	C	689	31.620	81.872	47.146	1.00	15.37	C
ATOM	8421	CA	VAL	C	689	30.903	80.607	47.014	1.00	15.37	C
ATOM	8422	CB	VAL	C	689	30.151	80.301	48.300	1.00	12.44	C
ATOM	8423	CG1	VAL	C	689	29.438	78.980	48.168	1.00	12.44	C
ATOM	8424	CG2	VAL	C	689	31.112	80.264	49.464	1.00	12.44	C
ATOM	8425	C	VAL	C	689	29.887	80.589	45.840	1.00	15.37	C
ATOM	8426	O	VAL	C	689	29.391	81.638	45.440	1.00	15.37	C
ATOM	8427	N	ILE	C	690	29.590	79.414	45.276	1.00	38.82	C
ATOM	8428	CA	ILE	C	690	28.607	79.326	44.186	1.00	38.82	C
ATOM	8429	CB	ILE	C	690	29.187	78.832	42.835	1.00	64.94	C
ATOM	8430	CG2	ILE	C	690	28.147	79.006	41.753	1.00	64.94	C
ATOM	8431	CG1	ILE	C	690	30.395	79.633	42.390	1.00	64.94	C
ATOM	8432	CD	ILE	C	690	30.920	79.167	41.030	1.00	64.94	C
ATOM	8433	C	ILE	C	690	27.546	78.283	44.530	1.00	38.82	C
ATOM	8434	O	ILE	C	690	27.840	77.301	45.231	1.00	38.82	C
ATOM	8435	N	SER	C	691	26.324	78.495	44.019	1.00	26.09	C
ATOM	8436	CA	SER	C	691	25.208	77.555	44.206	1.00	26.09	C
ATOM	8437	CB	SER	C	691	23.880	78.275	44.414	1.00	77.43	C
ATOM	8438	OG	SER	C	691	22.809	77.362	44.232	1.00	77.43	C
ATOM	8439	C	SER	C	691	25.093	76.694	42.954	1.00	26.09	C
ATOM	8440	O	SER	C	691	24.718	77.173	41.885	1.00	26.09	C
ATOM	8441	N	GLU	C	692	25.429	75.422	43.117	1.00	5.07	C
ATOM	8442	CA	GLU	C	692	25.418	74.442	42.055	1.00	5.07	C
ATOM	8443	CB	GLU	C	692	25.182	73.065	42.660	1.00	41.10	C
ATOM	8444	CG	GLU	C	692	25.056	71.944	41.668	1.00	41.10	C
ATOM	8445	CD	GLU	C	692	25.390	70.606	42.289	1.00	41.10	C
ATOM	8446	OE1	GLU	C	692	24.959	70.356	43.429	1.00	41.10	C

ATOM	8447	OE2	GLU	C	692	26.079	69.798	41.639	1.00	41.10	C
ATOM	8448	C	GLU	C	692	24.390	74.747	40.994	1.00	5.07	C
ATOM	8449	O	GLU	C	692	24.638	74.546	39.809	1.00	5.07	C
ATOM	8450	N	GLU	C	693	23.243	75.261	41.417	1.00	37.66	C
ATOM	8451	CA	GLU	C	693	22.179	75.576	40.477	1.00	37.66	C
ATOM	8452	CB	GLU	C	693	21.149	76.493	41.140	1.00	74.69	C
ATOM	8453	CG	GLU	C	693	19.718	76.122	40.808	1.00	74.69	C
ATOM	8454	CD	GLU	C	693	19.369	74.712	41.257	1.00	74.69	C
ATOM	8455	OE1	GLU	C	693	20.030	73.749	40.808	1.00	74.69	C
ATOM	8456	OE2	GLU	C	693	18.432	74.561	42.064	1.00	74.69	C
ATOM	8457	C	GLU	C	693	22.688	76.199	39.163	1.00	37.66	C
ATOM	8458	O	GLU	C	693	22.480	75.636	38.090	1.00	37.66	C
ATOM	8459	N	LEU	C	694	23.365	77.345	39.244	1.00	30.35	C
ATOM	8460	CA	LEU	C	694	23.887	78.019	38.047	1.00	30.35	C
ATOM	8461	CB	LEU	C	694	24.924	79.084	38.435	1.00	24.48	C
ATOM	8462	CG	LEU	C	694	24.530	80.143	39.461	1.00	24.48	C
ATOM	8463	CD1	LEU	C	694	25.612	81.220	39.574	1.00	24.48	C
ATOM	8464	CD2	LEU	C	694	23.226	80.765	39.022	1.00	24.48	C
ATOM	8465	C	LEU	C	694	24.539	77.014	37.089	1.00	30.35	C
ATOM	8466	O	LEU	C	694	24.555	77.198	35.867	1.00	30.35	C
ATOM	8467	N	ALA	C	695	25.094	75.957	37.662	1.00	18.21	C
ATOM	8468	CA	ALA	C	695	25.739	74.948	36.864	1.00	18.21	C
ATOM	8469	CB	ALA	C	695	26.728	74.141	37.736	1.00	5.07	C
ATOM	8470	C	ALA	C	695	24.599	74.081	36.344	1.00	18.21	C
ATOM	8471	O	ALA	C	695	24.553	73.750	35.155	1.00	18.21	C
ATOM	8472	N	ALA	C	696	23.664	73.748	37.236	1.00	37.13	C
ATOM	8473	CA	ALA	C	696	22.507	72.924	36.887	1.00	37.13	C
ATOM	8474	CB	ALA	C	696	21.666	72.630	38.131	1.00	5.07	C
ATOM	8475	C	ALA	C	696	21.678	73.627	35.812	1.00	37.13	C
ATOM	8476	O	ALA	C	696	21.115	72.976	34.943	1.00	37.13	C
ATOM	8477	N	ARG	C	697	21.584	74.950	35.875	1.00	78.06	C
ATOM	8478	CA	ARG	C	697	20.881	75.688	34.830	1.00	78.06	C
ATOM	8479	CB	ARG	C	697	20.485	77.090	35.300	1.00	67.10	C
ATOM	8480	CG	ARG	C	697	19.715	77.116	36.617	1.00	67.10	C
ATOM	8481	CD	ARG	C	697	18.453	77.963	36.515	1.00	67.10	C
ATOM	8482	NE	ARG	C	697	18.659	79.355	36.904	1.00	67.10	C
ATOM	8483	CZ	ARG	C	697	18.069	80.388	36.308	1.00	67.10	C
ATOM	8484	NH1	ARG	C	697	17.239	80.186	35.280	1.00	67.10	C
ATOM	8485	NH2	ARG	C	697	18.295	81.621	36.751	1.00	67.10	C
ATOM	8486	C	ARG	C	697	22.061	75.791	33.893	1.00	78.06	C
ATOM	8487	O	ARG	C	697	23.192	75.662	34.354	1.00	78.06	C
ATOM	8488	N	ASP	C	698	21.858	75.996	32.599	1.00	49.34	C
ATOM	8489	CA	ASP	C	698	23.042	76.096	31.756	1.00	49.34	C
ATOM	8490	CB	ASP	C	698	22.773	75.619	30.332	1.00	70.47	C
ATOM	8491	CG	ASP	C	698	23.540	74.349	29.999	1.00	70.47	C
ATOM	8492	OD1	ASP	C	698	24.680	74.205	30.499	1.00	70.47	C
ATOM	8493	OD2	ASP	C	698	23.012	73.506	29.237	1.00	70.47	C
ATOM	8494	C	ASP	C	698	23.542	77.524	31.757	1.00	49.34	C
ATOM	8495	O	ASP	C	698	23.818	78.107	30.716	1.00	49.34	C
ATOM	8496	N	PHE	C	699	23.674	78.064	32.963	1.00	70.88	C
ATOM	8497	CA	PHE	C	699	24.128	79.429	33.167	1.00	70.88	C
ATOM	8498	CB	PHE	C	699	24.091	79.798	34.652	1.00	48.70	C
ATOM	8499	CG	PHE	C	699	23.152	80.930	34.968	1.00	48.70	C
ATOM	8500	CD1	PHE	C	699	21.864	80.678	35.431	1.00	48.70	C
ATOM	8501	CD2	PHE	C	699	23.554	82.250	34.793	1.00	48.70	C
ATOM	8502	CE1	PHE	C	699	20.998	81.716	35.713	1.00	48.70	C
ATOM	8503	CE2	PHE	C	699	22.692	83.291	35.073	1.00	48.70	C
ATOM	8504	CZ	PHE	C	699	21.411	83.021	35.536	1.00	48.70	C
ATOM	8505	C	PHE	C	699	25.512	79.718	32.638	1.00	70.88	C
ATOM	8506	O	PHE	C	699	25.871	79.311	31.537	1.00	70.88	C
ATOM	8507	N	TYR	C	700	26.271	80.436	33.457	1.00	47.29	C
ATOM	8508	CA	TYR	C	700	27.624	80.871	33.151	1.00	47.29	C
ATOM	8509	CB	TYR	C	700	28.431	80.951	34.451	1.00	41.89	C
ATOM	8510	CG	TYR	C	700	28.040	82.145	35.294	1.00	41.89	C
ATOM	8511	CD1	TYR	C	700	28.574	82.343	36.562	1.00	41.89	C
ATOM	8512	CE1	TYR	C	700	28.198	83.452	37.334	1.00	41.89	C
ATOM	8513	CD2	TYR	C	700	27.119	83.088	34.817	1.00	41.89	C
ATOM	8514	CE2	TYR	C	700	26.740	84.195	35.587	1.00	41.89	C
ATOM	8515	CZ	TYR	C	700	27.285	84.363	36.834	1.00	41.89	C
ATOM	8516	OH	TYR	C	700	26.914	85.447	37.572	1.00	41.89	C
ATOM	8517	C	TYR	C	700	28.421	80.138	32.081	1.00	47.29	C
ATOM	8518	O	TYR	C	700	29.404	80.686	31.579	1.00	47.29	C
ATOM	8519	N	THR	C	701	28.020	78.916	31.734	1.00	21.71	C
ATOM	8520	CA	THR	C	701	28.710	78.156	30.700	1.00	21.71	C
ATOM	8521	CB	THR	C	701	27.838	77.003	30.204	1.00	56.54	C
ATOM	8522	OG1	THR	C	701	26.583	77.513	29.742	1.00	56.54	C
ATOM	8523	CG2	THR	C	701	27.596	76.020	31.327	1.00	56.54	C
ATOM	8524	C	THR	C	701	29.072	79.063	29.512	1.00	21.71	C
ATOM	8525	O	THR	C	701	28.208	79.751	28.955	1.00	21.71	C
ATOM	8526	N	SER	C	702	30.362	79.065	29.158	1.00	45.58	C
ATOM	8527	CA	SER	C	702	30.906	79.872	28.060	1.00	45.58	C
ATOM	8528	CB	SER	C	702	31.925	80.872	28.604	1.00	89.52	C
ATOM	8529	OG	SER	C	702	32.947	80.210	29.330	1.00	89.52	C
ATOM	8530	C	SER	C	702	31.590	78.965	27.045	1.00	45.58	C

ATOM	8531	O	SER	C	702	32.369	78.085	27.428	1.00	45.58	C
ATOM	8532	N	ILE	C	703	31.315	79.189	25.759	1.00	22.39	C
ATOM	8533	CA	ILE	C	703	31.883	78.362	24.696	1.00	22.39	C
ATOM	8534	CB	ILE	C	703	30.898	78.228	23.545	1.00	67.44	C
ATOM	8535	CG2	ILE	C	703	31.615	77.685	22.327	1.00	67.44	C
ATOM	8536	CG1	ILE	C	703	29.733	77.331	23.962	1.00	67.44	C
ATOM	8537	CD	ILE	C	703	28.625	77.228	22.922	1.00	67.44	C
ATOM	8538	C	ILE	C	703	33.191	78.881	24.116	1.00	22.39	C
ATOM	8539	O	ILE	C	703	33.252	80.028	23.679	1.00	22.39	C
ATOM	8540	N	HIS	C	704	34.219	78.030	24.073	1.00	45.20	C
ATOM	8541	CA	HIS	C	704	35.522	78.431	23.537	1.00	45.20	C
ATOM	8542	CB	HIS	C	704	36.554	78.432	24.659	1.00	100.07	C
ATOM	8543	CG	HIS	C	704	36.214	79.360	25.785	1.00	100.07	C
ATOM	8544	CD2	HIS	C	704	36.807	80.500	26.213	1.00	100.07	C
ATOM	8545	ND1	HIS	C	704	35.143	79.148	26.626	1.00	100.07	C
ATOM	8546	CE1	HIS	C	704	35.093	80.116	27.527	1.00	100.07	C
ATOM	8547	NE2	HIS	C	704	36.093	80.949	27.297	1.00	100.07	C
ATOM	8548	C	HIS	C	704	36.011	77.590	22.337	1.00	45.20	C
ATOM	8549	O	HIS	C	704	35.769	76.387	22.260	1.00	45.20	C
ATOM	8550	N	ILE	C	705	36.730	78.237	21.420	1.00	15.98	C
ATOM	8551	CA	ILE	C	705	37.191	77.603	20.191	1.00	15.98	C
ATOM	8552	CB	ILE	C	705	36.301	78.039	19.052	1.00	14.22	C
ATOM	8553	CG2	ILE	C	705	36.793	77.477	17.763	1.00	14.22	C
ATOM	8554	CG1	ILE	C	705	34.877	77.633	19.321	1.00	14.22	C
ATOM	8555	CD	ILE	C	705	33.946	78.211	18.296	1.00	14.22	C
ATOM	8556	C	ILE	C	705	38.601	77.953	19.719	1.00	15.98	C
ATOM	8557	O	ILE	C	705	38.815	79.066	19.224	1.00	15.98	C
ATOM	8558	N	GLU	C	706	39.561	77.039	19.808	1.00	60.09	C
ATOM	8559	CA	GLU	C	706	40.865	77.411	19.288	1.00	60.09	C
ATOM	8560	CB	GLU	C	706	41.907	77.489	20.387	1.00	99.45	C
ATOM	8561	CG	GLU	C	706	42.925	78.553	20.032	1.00	99.45	C
ATOM	8562	CD	GLU	C	706	42.359	79.560	19.022	1.00	99.45	C
ATOM	8563	OE1	GLU	C	706	41.317	80.195	19.306	1.00	99.45	C
ATOM	8564	OE2	GLU	C	706	42.951	79.707	17.934	1.00	99.45	C
ATOM	8565	C	GLU	C	706	41.354	76.526	18.160	1.00	60.09	C
ATOM	8566	O	GLU	C	706	40.903	75.398	18.042	1.00	60.09	C
ATOM	8567	N	ARG	C	707	42.263	77.045	17.327	1.00	49.03	C
ATOM	8568	CA	ARG	C	707	42.787	76.300	16.175	1.00	49.03	C
ATOM	8569	CB	ARG	C	707	42.993	77.238	14.990	1.00	93.56	C
ATOM	8570	CG	ARG	C	707	43.782	78.489	15.307	1.00	93.56	C
ATOM	8571	CD	ARG	C	707	43.374	79.616	14.358	1.00	93.56	C
ATOM	8572	NE	ARG	C	707	43.814	80.938	14.805	1.00	93.56	C
ATOM	8573	CZ	ARG	C	707	43.295	82.087	14.374	1.00	93.56	C
ATOM	8574	NH1	ARG	C	707	42.313	82.091	13.481	1.00	93.56	C
ATOM	8575	NH2	ARG	C	707	43.747	83.239	14.853	1.00	93.56	C
ATOM	8576	C	ARG	C	707	44.072	75.539	16.434	1.00	49.03	C
ATOM	8577	O	ARG	C	707	44.622	75.604	17.525	1.00	49.03	C
ATOM	8578	N	TYR	C	708	44.532	74.804	15.425	1.00	37.77	C
ATOM	8579	CA	TYR	C	708	45.756	74.014	15.512	1.00	37.77	C
ATOM	8580	CB	TYR	C	708	45.440	72.598	15.963	1.00	25.12	C
ATOM	8581	CG	TYR	C	708	45.123	72.493	17.427	1.00	25.12	C
ATOM	8582	CD1	TYR	C	708	43.815	72.342	17.872	1.00	25.12	C
ATOM	8583	CE1	TYR	C	708	43.518	72.323	19.227	1.00	25.12	C
ATOM	8584	CD2	TYR	C	708	46.127	72.613	18.372	1.00	25.12	C
ATOM	8585	CE2	TYR	C	708	45.843	72.598	19.721	1.00	25.12	C
ATOM	8586	CZ	TYR	C	708	44.539	72.461	20.150	1.00	25.12	C
ATOM	8587	OH	TYR	C	708	44.264	72.536	21.507	1.00	25.12	C
ATOM	8588	C	TYR	C	708	46.403	73.949	14.142	1.00	37.77	C
ATOM	8589	O	TYR	C	708	45.719	73.655	13.154	1.00	37.77	C
ATOM	8590	N	GLU	C	709	47.709	74.201	14.065	1.00	45.83	C
ATOM	8591	CA	GLU	C	709	48.404	74.179	12.773	1.00	45.83	C
ATOM	8592	CB	GLU	C	709	49.109	75.510	12.522	1.00	77.60	C
ATOM	8593	CG	GLU	C	709	48.216	76.646	12.101	1.00	77.60	C
ATOM	8594	CD	GLU	C	709	48.921	77.589	11.134	1.00	77.60	C
ATOM	8595	OE1	GLU	C	709	50.074	77.990	11.427	1.00	77.60	C
ATOM	8596	OE2	GLU	C	709	48.324	77.927	10.083	1.00	77.60	C
ATOM	8597	C	GLU	C	709	49.442	73.081	12.603	1.00	45.83	C
ATOM	8598	O	GLU	C	709	50.160	72.761	13.544	1.00	45.83	C
ATOM	8599	N	ILE	C	710	49.522	72.516	11.398	1.00	21.14	C
ATOM	8600	CA	ILE	C	710	50.517	71.487	11.070	1.00	21.14	C
ATOM	8601	CB	ILE	C	710	49.935	70.077	10.971	1.00	43.13	C
ATOM	8602	CG2	ILE	C	710	51.075	69.065	10.953	1.00	43.13	C
ATOM	8603	CG1	ILE	C	710	48.943	69.823	12.117	1.00	43.13	C
ATOM	8604	CD	ILE	C	710	49.473	69.976	13.553	1.00	43.13	C
ATOM	8605	C	ILE	C	710	51.067	71.822	9.697	1.00	21.14	C
ATOM	8606	O	ILE	C	710	50.306	71.986	8.732	1.00	21.14	C
ATOM	8607	N	GLU	C	711	52.389	71.930	9.610	1.00	56.98	C
ATOM	8608	CA	GLU	C	711	53.037	72.268	8.353	1.00	56.98	C
ATOM	8609	CB	GLU	C	711	54.179	73.256	8.616	1.00	84.91	C
ATOM	8610	CG	GLU	C	711	53.672	74.550	9.240	1.00	84.91	C
ATOM	8611	CD	GLU	C	711	54.765	75.544	9.583	1.00	84.91	C
ATOM	8612	OE1	GLU	C	711	55.392	76.097	8.656	1.00	84.91	C
ATOM	8613	OE2	GLU	C	711	54.988	75.777	10.790	1.00	84.91	C
ATOM	8614	C	GLU	C	711	53.546	71.031	7.623	1.00	56.98	C

ATOM	8615	O	GLU	C	711	53.816	70.004	8.247	1.00	56.98	C
ATOM	8616	N	ALA	C	712	53.638	71.136	6.297	1.00	41.22	C
ATOM	8617	CA	ALA	C	712	54.129	70.060	5.436	1.00	41.22	C
ATOM	8618	CB	ALA	C	712	53.034	69.613	4.481	1.00	85.63	C
ATOM	8619	C	ALA	C	712	55.338	70.596	4.661	1.00	41.22	C
ATOM	8620	O	ALA	C	712	55.215	71.100	3.542	1.00	41.22	C
ATOM	8621	N	ARG	C	713	56.507	70.487	5.284	1.00	58.37	C
ATOM	8622	CA	ARG	C	713	57.761	70.966	4.717	1.00	58.37	C
ATOM	8623	CB	ARG	C	713	58.882	70.792	5.744	1.00	99.84	C
ATOM	8624	CG	ARG	C	713	58.633	71.525	7.061	1.00	99.84	C
ATOM	8625	CD	ARG	C	713	58.850	73.031	6.919	1.00	99.84	C
ATOM	8626	NE	ARG	C	713	58.432	73.782	8.107	1.00	99.84	C
ATOM	8627	CZ	ARG	C	713	58.703	75.072	8.323	1.00	99.84	C
ATOM	8628	NH1	ARG	C	713	59.403	75.767	7.434	1.00	99.84	C
ATOM	8629	NH2	ARG	C	713	58.258	75.677	9.420	1.00	99.84	C
ATOM	8630	C	ARG	C	713	58.147	70.292	3.402	1.00	58.37	C
ATOM	8631	O	ARG	C	713	57.289	69.784	2.667	1.00	58.37	C
ATOM	8632	N	ASP	C	714	59.448	70.292	3.117	1.00	68.42	C
ATOM	8633	CA	ASP	C	714	59.961	69.711	1.884	1.00	68.42	C
ATOM	8634	CB	ASP	C	714	59.791	70.729	0.751	1.00	80.11	C
ATOM	8635	CG	ASP	C	714	59.750	70.087	-0.622	1.00	80.11	C
ATOM	8636	OD1	ASP	C	714	60.800	69.587	-1.072	1.00	80.11	C
ATOM	8637	OD2	ASP	C	714	58.666	70.084	-1.250	1.00	80.11	C
ATOM	8638	C	ASP	C	714	61.436	69.369	2.065	1.00	68.42	C
ATOM	8639	O	ASP	C	714	62.166	69.219	1.093	1.00	68.42	C
ATOM	8640	N	ALA	C	715	61.853	69.235	3.321	1.00	42.90	C
ATOM	8641	CA	ALA	C	715	63.243	68.939	3.691	1.00	42.90	C
ATOM	8642	CB	ALA	C	715	63.294	68.439	5.119	1.00	50.27	C
ATOM	8643	C	ALA	C	715	64.015	67.982	2.789	1.00	42.90	C
ATOM	8644	O	ALA	C	715	63.434	67.259	1.984	1.00	42.90	C
ATOM	8645	N	ALA	C	716	65.335	67.981	2.962	1.00	88.79	C
ATOM	8646	CA	ALA	C	716	66.264	67.162	2.186	1.00	88.79	C
ATOM	8647	CB	ALA	C	716	67.684	67.451	2.632	1.00	100.07	C
ATOM	8648	C	ALA	C	716	66.042	65.656	2.177	1.00	88.79	C
ATOM	8649	O	ALA	C	716	66.296	65.007	1.173	1.00	88.79	C
ATOM	8650	N	LEU	C	717	65.595	65.090	3.289	1.00	39.98	C
ATOM	8651	CA	LEU	C	717	65.367	63.650	3.349	1.00	39.98	C
ATOM	8652	CB	LEU	C	717	65.426	63.187	4.795	1.00	76.08	C
ATOM	8653	CG	LEU	C	717	66.660	63.744	5.484	1.00	81.83	C
ATOM	8654	CD1	LEU	C	717	66.716	63.226	6.896	1.00	81.83	C
ATOM	8655	CD2	LEU	C	717	67.898	63.364	4.690	1.00	81.83	C
ATOM	8656	C	LEU	C	717	64.024	63.235	2.732	1.00	39.98	C
ATOM	8657	O	LEU	C	717	63.399	62.264	3.163	1.00	39.98	C
ATOM	8658	N	GLY	C	718	63.586	63.972	1.719	1.00	79.48	C
ATOM	8659	CA	GLY	C	718	62.323	63.656	1.079	1.00	79.48	C
ATOM	8660	C	GLY	C	718	61.206	64.576	1.526	1.00	79.48	C
ATOM	8661	O	GLY	C	718	61.352	65.301	2.506	1.00	79.48	C
ATOM	8662	N	PRO	C	719	60.067	64.564	0.822	1.00	23.76	C
ATOM	8663	CD	PRO	C	719	59.891	63.891	-0.472	1.00	98.16	C
ATOM	8664	CA	PRO	C	719	58.900	65.391	1.120	1.00	23.76	C
ATOM	8665	CB	PRO	C	719	58.102	65.333	-0.177	1.00	92.41	C
ATOM	8666	CG	PRO	C	719	58.398	63.973	-0.672	1.00	98.16	C
ATOM	8667	C	PRO	C	719	58.054	64.971	2.313	1.00	23.76	C
ATOM	8668	O	PRO	C	719	57.677	63.809	2.448	1.00	23.76	C
ATOM	8669	N	GLU	C	720	57.743	65.939	3.169	1.00	52.29	C
ATOM	8670	CA	GLU	C	720	56.905	65.702	4.331	1.00	52.29	C
ATOM	8671	CB	GLU	C	720	57.114	66.826	5.342	1.00	72.46	C
ATOM	8672	CG	GLU	C	720	56.463	66.580	6.673	1.00	76.24	C
ATOM	8673	CD	GLU	C	720	57.469	66.576	7.798	1.00	76.24	C
ATOM	8674	OE1	GLU	C	720	58.039	67.653	8.077	1.00	76.24	C
ATOM	8675	OE2	GLU	C	720	57.700	65.501	8.394	1.00	76.24	C
ATOM	8676	C	GLU	C	720	55.470	65.724	3.794	1.00	52.29	C
ATOM	8677	O	GLU	C	720	55.026	66.738	3.256	1.00	52.29	C
ATOM	8678	N	ARG	C	721	54.748	64.614	3.920	1.00	29.36	C
ATOM	8679	CA	ARG	C	721	53.370	64.548	3.413	1.00	29.36	C
ATOM	8680	CB	ARG	C	721	53.325	63.548	2.257	1.00	100.07	C
ATOM	8681	CG	ARG	C	721	54.254	62.364	2.471	1.00	100.07	C
ATOM	8682	CD	ARG	C	721	54.414	61.509	1.225	1.00	100.07	C
ATOM	8683	NE	ARG	C	721	55.261	60.352	1.502	1.00	100.07	C
ATOM	8684	CZ	ARG	C	721	55.579	59.426	0.605	1.00	100.07	C
ATOM	8685	NH1	ARG	C	721	55.118	59.526	-0.636	1.00	100.07	C
ATOM	8686	NH2	ARG	C	721	56.347	58.395	0.949	1.00	100.07	C
ATOM	8687	C	ARG	C	721	52.287	64.213	4.469	1.00	29.36	C
ATOM	8688	O	ARG	C	721	52.589	63.688	5.545	1.00	29.36	C
ATOM	8689	N	ILE	C	722	51.028	64.524	4.155	1.00	94.25	C
ATOM	8690	CA	ILE	C	722	49.914	64.281	5.075	1.00	94.25	C
ATOM	8691	CB	ILE	C	722	48.942	65.455	5.068	1.00	50.71	C
ATOM	8692	CG2	ILE	C	722	47.901	65.249	6.118	1.00	56.46	C
ATOM	8693	CG1	ILE	C	722	49.684	66.758	5.320	1.00	56.46	C
ATOM	8694	CD	ILE	C	722	50.429	66.777	6.606	1.00	96.64	C
ATOM	8695	C	ILE	C	722	49.096	63.039	4.737	1.00	94.25	C
ATOM	8696	O	ILE	C	722	48.291	63.066	3.803	1.00	94.25	C
ATOM	8697	N	THR	C	723	49.262	61.970	5.513	1.00	43.74	C
ATOM	8698	CA	THR	C	723	48.533	60.734	5.236	1.00	43.74	C

ATOM	8783	CD	ARG	C	735	42.943	53.698	7.548	1.00100.07	C
ATOM	8784	NE	ARG	C	735	44.189	53.734	6.763	1.00100.07	C
ATOM	8785	CZ	ARG	C	735	44.584	52.792	5.897	1.00100.07	C
ATOM	8786	NH1	ARG	C	735	43.838	51.715	5.683	1.00100.07	C
ATOM	8787	NH2	ARG	C	735	45.727	52.930	5.228	1.00100.07	C
ATOM	8788	C	ARG	C	735	40.162	55.871	11.274	1.00100.07	C
ATOM	8789	O	ARG	C	735	39.075	56.200	10.809	1.00100.07	C
ATOM	8790	N	ASP	C	736	40.306	55.408	12.521	1.00 70.13	C
ATOM	8791	CA	ASP	C	736	39.180	55.274	13.450	1.00 70.13	C
ATOM	8792	CB	ASP	C	736	39.676	54.692	14.789	1.00100.07	C
ATOM	8793	CG	ASP	C	736	38.570	54.566	15.854	1.00100.07	C
ATOM	8794	OD1	ASP	C	736	38.027	55.608	16.288	1.00100.07	C
ATOM	8795	OD2	ASP	C	736	38.251	53.429	16.273	1.00100.07	C
ATOM	8796	C	ASP	C	736	38.622	56.679	13.625	1.00 70.13	C
ATOM	8797	O	ASP	C	736	37.693	56.929	14.399	1.00 70.13	C
ATOM	8798	N	LEU	C	737	39.224	57.582	12.866	1.00 26.72	C
ATOM	8799	CA	LEU	C	737	38.901	58.998	12.798	1.00 26.72	C
ATOM	8800	CB	LEU	C	737	39.105	59.688	14.158	1.00100.07	C
ATOM	8801	CG	LEU	C	737	37.982	59.625	15.209	1.00 86.39	C
ATOM	8802	CD1	LEU	C	737	38.380	60.286	16.522	1.00 86.39	C
ATOM	8803	CD2	LEU	C	737	36.748	60.301	14.621	1.00 86.39	C
ATOM	8804	C	LEU	C	737	39.971	59.432	11.796	1.00 26.72	C
ATOM	8805	O	LEU	C	737	40.588	58.587	11.146	1.00 26.72	C
ATOM	8806	N	ALA	C	738	40.223	60.726	11.658	1.00100.07	C
ATOM	8807	CA	ALA	C	738	41.231	61.171	10.708	1.00100.07	C
ATOM	8808	CB	ALA	C	738	42.596	60.643	11.117	1.00 53.72	C
ATOM	8809	C	ALA	C	738	40.859	60.644	9.319	1.00100.07	C
ATOM	8810	O	ALA	C	738	41.594	59.856	8.730	1.00100.07	C
ATOM	8811	N	GLU	C	739	39.711	61.090	8.809	1.00 27.26	C
ATOM	8812	CA	GLU	C	739	39.227	60.648	7.510	1.00 27.26	C
ATOM	8813	CB	GLU	C	739	37.806	61.155	7.255	1.00100.07	C
ATOM	8814	CG	GLU	C	739	37.751	62.594	6.741	1.00100.07	C
ATOM	8815	CD	GLU	C	739	36.379	62.993	6.196	1.00100.07	C
ATOM	8816	OE1	GLU	C	739	35.469	63.299	7.009	1.00100.07	C
ATOM	8817	OE2	GLU	C	739	36.219	62.987	4.951	1.00100.07	C
ATOM	8818	C	GLU	C	739	40.123	61.134	6.393	1.00 27.26	C
ATOM	8819	O	GLU	C	739	40.191	62.336	6.129	1.00 27.26	C
ATOM	8820	N	GLU	C	740	40.789	60.179	5.737	1.00 70.52	C
ATOM	8821	CA	GLU	C	740	41.728	60.406	4.629	1.00 70.52	C
ATOM	8822	CB	GLU	C	740	40.953	60.506	3.322	1.00100.07	C
ATOM	8823	CG	GLU	C	740	40.329	59.186	2.956	1.00 99.90	C
ATOM	8824	CD	GLU	C	740	39.561	59.240	1.664	1.00 99.90	C
ATOM	8825	OE1								

ATOM	8867	O	ALA	C	747	35.763	66.020	17.591	1.00	55.00	C
ATOM	8868	N	GLU	C	748	34.589	64.270	18.377	1.00	20.56	C
ATOM	8869	CA	GLU	C	748	34.923	64.553	19.767	1.00	20.56	C
ATOM	8870	CB	GLU	C	748	33.974	63.782	20.687	1.00	57.88	C
ATOM	8871	CG	GLU	C	748	34.306	63.851	22.156	1.00	57.88	C
ATOM	8872	CD	GLU	C	748	35.313	62.802	22.565	1.00	57.88	C
ATOM	8873	OE1	GLU	C	748	35.630	62.725	23.767	1.00	57.88	C
ATOM	8874	OE2	GLU	C	748	35.787	62.047	21.689	1.00	57.88	C
ATOM	8875	C	GLU	C	748	36.385	64.130	19.959	1.00	20.56	C
ATOM	8876	O	GLU	C	748	36.742	62.985	19.702	1.00	20.56	C
ATOM	8877	N	VAL	C	749	37.223	65.068	20.400	1.00	40.79	C
ATOM	8878	CA	VAL	C	749	38.663	64.844	20.566	1.00	40.79	C
ATOM	8879	CB	VAL	C	749	39.437	65.824	19.728	1.00	14.31	C
ATOM	8880	CG1	VAL	C	749	40.899	65.652	19.996	1.00	14.31	C
ATOM	8881	CG2	VAL	C	749	39.078	65.652	18.262	1.00	14.31	C
ATOM	8882	C	VAL	C	749	39.240	64.983	21.963	1.00	40.79	C
ATOM	8883	O	VAL	C	749	39.147	66.050	22.569	1.00	40.79	C
ATOM	8884	N	LYS	C	750	39.891	63.925	22.440	1.00	31.19	C
ATOM	8885	CA	LYS	C	750	40.512	63.899	23.773	1.00	31.19	C
ATOM	8886	CB	LYS	C	750	40.345	62.511	24.401	1.00	99.75	C
ATOM	8887	CG	LYS	C	750	39.318	61.629	23.698	1.00	99.75	C
ATOM	8888	CD	LYS	C	750	39.797	60.179	23.585	1.00	99.75	C
ATOM	8889	CE	LYS	C	750	38.861	59.333	22.726	1.00	99.75	C
ATOM	8890	NZ	LYS	C	750	39.316	57.916	22.630	1.00	99.75	C
ATOM	8891	C	LYS	C	750	41.999	64.184	23.561	1.00	31.19	C
ATOM	8892	O	LYS	C	750	42.495	64.089	22.443	1.00	31.19	C
ATOM	8893	N	PRO	C	751	42.735	64.520	24.627	1.00	51.92	C
ATOM	8894	CD	PRO	C	751	42.445	64.330	26.057	1.00	76.09	C
ATOM	8895	CA	PRO	C	751	44.157	64.799	24.435	1.00	51.92	C
ATOM	8896	CB	PRO	C	751	44.612	65.182	25.831	1.00	76.09	C
ATOM	8897	CG	PRO	C	751	43.839	64.232	26.664	1.00	76.09	C
ATOM	8898	C	PRO	C	751	44.842	63.540	23.945	1.00	51.92	C
ATOM	8899	O	PRO	C	751	44.493	62.439	24.379	1.00	51.92	C
ATOM	8900	N	GLY	C	752	45.813	63.696	23.052	1.00	71.81	C
ATOM	8901	CA	GLY	C	752	46.512	62.538	22.530	1.00	71.81	C
ATOM	8902	C	GLY	C	752	46.007	62.142	21.155	1.00	71.81	C
ATOM	8903	O	GLY	C	752	46.794	62.040	20.214	1.00	71.81	C
ATOM	8904	N	ASP	C	753	44.700	61.920	21.033	1.00	39.11	C
ATOM	8905	CA	ASP	C	753	44.095	61.540	19.758	1.00	39.11	C
ATOM	8906	CB	ASP	C	753	42.607	61.923	19.743	1.00	68.10	C
ATOM	8907	CG	ASP	C	753	41.815	61.300	20.893	1.00	68.10	C
ATOM	8908	OD1	ASP	C	753	40.573	61.464	20.911	1.00	68.10	C
ATOM	8909	OD2	ASP	C	753	42.424	60.656	21.774	1.00	68.10	C
ATOM	8910	C	ASP	C	753	44.813	62.224	18.581	1.00	39.11	C
ATOM	8911	O	ASP	C	753	45.092	63.425	18.619	1.00	39.11	C
ATOM	8912	N	ILE	C	754	45.113	61.454	17.537	1.00	41.60	C
ATOM	8913	CA	ILE	C	754	45.814	61.980	16.362	1.00	41.60	C
ATOM	8914	CB	ILE	C	754	46.086	60.853	15.336	1.00	54.36	C
ATOM	8915	CG2	ILE	C	754	47.123	61.297	14.333	1.00	54.36	C
ATOM	8916	CG1	ILE	C	754	46.586	59.598	16.053	1.00	54.36	C
ATOM	8917	CD	ILE	C	754	47.856	59.798	16.872	1.00	54.36	C
ATOM	8918	C	ILE	C	754	44.987	63.069	15.688	1.00	41.60	C
ATOM	8919	O	ILE	C	754	44.251	62.797	14.752	1.00	41.60	C
ATOM	8920	N	LEU	C	755	45.109	64.304	16.160	1.00	11.80	C
ATOM	8921	CA	LEU	C	755	44.338	65.410	15.589	1.00	11.80	C
ATOM	8922	CB	LEU	C	755	44.839	66.744	16.140	1.00	51.18	C
ATOM	8923	CG	LEU	C	755	43.886	67.928	16.001	1.00	51.18	C
ATOM	8924	CD1	LEU	C	755	43.545	68.176	14.544	1.00	51.18	C
ATOM	8925	CD2	LEU	C	755	42.634	67.635	16.799	1.00	51.18	C
ATOM	8926	C	LEU	C	755	44.456	65.418	14.080	1.00	11.80	C
ATOM	8927	O	LEU	C	755	43.465	65.547	13.386	1.00	11.80	C
ATOM	8928	N	VAL	C	756	45.691	65.318	13.603	1.00	62.68	C
ATOM	8929	CA	VAL	C	756	46.035	65.268	12.183	1.00	62.68	C
ATOM	8930	CB	VAL	C	756	46.447	66.638	11.628	1.00	5.07	C
ATOM	8931	CG1	VAL	C	756	47.100	66.509	10.256	1.00	5.07	C
ATOM	8932	CG2	VAL	C	756	45.221	67.517	11.545	1.00	5.07	C
ATOM	8933	C	VAL	C	756	47.234	64.350	12.172	1.00	62.68	C
ATOM	8934	O	VAL	C	756	47.608	63.832	13.225	1.00	62.68	C
ATOM	8935	N	GLY	C	757	47.843	64.131	11.015	1.00	37.71	C
ATOM	8936	CA	GLY	C	757	48.997	63.259	11.003	1.00	37.71	C
ATOM	8937	C	GLY	C	757	49.795	63.315	9.730	1.00	37.71	C
ATOM	8938	O	GLY	C	757	49.238	63.477	8.643	1.00	37.71	C
ATOM	8939	N	ARG	C	758	51.114	63.212	9.867	1.00	26.61	C
ATOM	8940	CA	ARG	C	758	51.989	63.191	8.700	1.00	26.61	C
ATOM	8941	CB	ARG	C	758	52.266	64.605	8.174	1.00	41.79	C
ATOM	8942	CG	ARG	C	758	53.357	65.337	8.879	1.00	41.79	C
ATOM	8943	CD	ARG	C	758	52.865	65.913	10.171	1.00	41.79	C
ATOM	8944	NE	ARG	C	758	53.909	66.693	10.822	1.00	41.79	C
ATOM	8945	CZ	ARG	C	758	54.637	67.606	10.198	1.00	41.79	C
ATOM	8946	NH1	ARG	C	758	54.434	67.846	8.912	1.00	41.79	C
ATOM	8947	NH2	ARG	C	758	55.562	68.276	10.860	1.00	41.79	C
ATOM	8948	C	ARG	C	758	53.294	62.453	9.014	1.00	26.61	C
ATOM	8949	O	ARG	C	758	53.518	62.009	10.145	1.00	26.61	C
ATOM	8950	N	THR	C	759	54.145	62.308	8.005	1.00	62.22	C

ATOM	8951	CA	THR	C	759	55.391	61.594	8.197	1.00	62.22	C
ATOM	8952	CB	THR	C	759	55.285	60.171	7.655	1.00	75.33	C
ATOM	8953	OG1	THR	C	759	56.565	59.535	7.760	1.00	75.33	C
ATOM	8954	CG2	THR	C	759	54.833	60.190	6.193	1.00	75.33	C
ATOM	8955	C	THR	C	759	56.632	62.219	7.578	1.00	62.22	C
ATOM	8956	O	THR	C	759	56.592	62.767	6.474	1.00	62.22	C
ATOM	8957	N	SER	C	760	57.736	62.111	8.309	1.00	100.06	C
ATOM	8958	CA	SER	C	760	59.032	62.611	7.878	1.00	100.06	C
ATOM	8959	CB	SER	C	760	59.641	63.501	8.964	1.00	57.65	C
ATOM	8960	OG	SER	C	760	60.934	63.954	8.596	1.00	57.66	C
ATOM	8961	C	SER	C	760	59.891	61.365	7.664	1.00	100.06	C
ATOM	8962	O	SER	C	760	59.889	60.460	8.502	1.00	100.06	C
ATOM	8963	N	PHE	C	761	60.614	61.312	6.546	1.00	19.65	C
ATOM	8964	CA	PHE	C	761	61.449	60.151	6.238	1.00	19.65	C
ATOM	8965	CB	PHE	C	761	62.065	60.286	4.846	1.00	64.09	C
ATOM	8966	CG	PHE	C	761	61.064	60.404	3.744	1.00	64.09	C
ATOM	8967	CD1	PHE	C	761	60.578	61.647	3.360	1.00	64.09	C
ATOM	8968	CD2	PHE	C	761	60.612	59.270	3.080	1.00	64.09	C
ATOM	8969	CE1	PHE	C	761	59.657	61.759	2.327	1.00	64.09	C
ATOM	8970	CE2	PHE	C	761	59.689	59.368	2.044	1.00	64.09	C
ATOM	8971	CZ	PHE	C	761	59.210	60.614	1.665	1.00	64.09	C
ATOM	8972	C	PHE	C	761	62.573	59.870	7.239	1.00	19.65	C
ATOM	8973	O	PHE	C	761	62.848	58.709	7.544	1.00	19.65	C
ATOM	8974	N	LYS	C	762	63.213	60.934	7.725	1.00	68.08	C
ATOM	8975	CA	LYS	C	762	64.326	60.842	8.672	1.00	68.08	C
ATOM	8976	CB	LYS	C	762	63.854	61.093	10.111	1.00	70.03	C
ATOM	8977	CG	LYS	C	762	63.351	62.504	10.408	1.00	70.03	C
ATOM	8978	CD	LYS	C	762	63.369	62.783	11.914	1.00	70.03	C
ATOM	8979	CE	LYS	C	762	62.080	63.432	12.393	1.00	70.03	C
ATOM	8980	NZ	LYS	C	762	60.919	62.500	12.312	1.00	70.03	C
ATOM	8981	C	LYS	C	762	65.037	59.496	8.619	1.00	68.08	C
ATOM	8982	O	LYS	C	762	64.486	58.480	9.044	1.00	68.08	C
ATOM	8983	N	GLY	C	763	66.268	59.491	8.114	1.00	34.35	C
ATOM	8984	CA	GLY	C	763	67.006	58.244	8.024	1.00	34.35	C
ATOM	8985	C	GLY	C	763	68.279	58.187	8.839	1.00	34.35	C
ATOM	8986	O	GLY	C	763	69.294	57.725	8.335	1.00	34.35	C
ATOM	8987	N	GLU	C	764	68.222	58.627	10.095	1.00	100.04	C
ATOM	8988	CA	GLU	C	764	69.389	58.632	10.986	1.00	100.04	C
ATOM	8989	CB	GLU	C	764	68.971	58.866	12.448	1.00	100.07	C
ATOM	8990	CG	GLU	C	764	68.110	60.104	12.728	1.00	100.07	C
ATOM	8991	CD	GLU	C	764	66.668	59.962	12.242	1.00	100.07	C
ATOM	8992	OE1	GLU	C	764	66.406	60.235	11.050	1.00	100.07	C
ATOM	8993	OE2	GLU	C	764	65.800	59.568	13.053	1.00	100.07	C
ATOM	8994	C	GLU	C	764	70.207	57.340	10.929	1.00	100.04	C
ATOM	8995	O	GLU	C	764	71.391	57.343	11.271	1.00	100.04	C
ATOM	8996	N	GLN	C	765	69.572	56.244	10.513	1.00	88.05	C
ATOM	8997	CA	GLN	C	765	70.240	54.946	10.421	1.00	88.05	C
ATOM	8998	CB	GLN	C	765	70.082	54.182	11.734	1.00	100.07	C
ATOM	8999	CG	GLN	C	765	70.803	54.838	12.897	1.00	100.07	C
ATOM	9000	CD	GLN	C	765	70.537	54.154	14.225	1.00	100.07	C
ATOM	9001	OE1	GLN	C	765	70.681	52.934	14.349	1.00	100.07	C
ATOM	9002	NE2	GLN	C	765	70.158	54.941	15.232	1.00	100.07	C
ATOM	9003	C	GLN	C	765	69.714	54.094	9.274	1.00	88.05	C
ATOM	9004	O	GLN	C	765	68.770	54.480	8.581	1.00	88.05	C
ATOM	9005	N	GLU	C	766	70.338	52.934	9.085	1.00	100.07	C
ATOM	9006	CA	GLU	C	766	69.964	51.995	8.028	1.00	100.07	C
ATOM	9007	CB	GLU	C	766	70.875	52.189	6.815	1.00	99.76	C
ATOM	9008	CG	GLU	C	766	70.973	53.643	6.359	1.00	99.76	C
ATOM	9009	CD	GLU	C	766	71.499	53.793	4.942	1.00	99.76	C
ATOM	9010	OE1	GLU	C	766	71.672	54.948	4.497	1.00	99.76	C
ATOM	9011	OE2	GLU	C	766	71.731	52.762	4.273	1.00	99.76	C
ATOM	9012	C	GLU	C	766	70.100	50.572	8.568	1.00	100.07	C
ATOM	9013	O	GLU	C	766	71.176	50.181	9.027	1.00	100.07	C
ATOM	9014	N	PRO	C	767	69.019	49.767	8.490	1.00	98.58	C
ATOM	9015	CD	PRO	C	767	67.808	49.957	7.672	1.00	32.75	C
ATOM	9016	CA	PRO	C	767	69.087	48.394	9.008	1.00	98.58	C
ATOM	9017	CB	PRO	C	767	67.760	47.766	8.555	1.00	32.75	C
ATOM	9018	CG	PRO	C	767	67.411	48.524	7.338	1.00	32.75	C
ATOM	9019	C	PRO	C	767	70.289	47.564	8.599	1.00	98.58	C
ATOM	9020	O	PRO	C	767	70.335	47.023	7.496	1.00	98.58	C
ATOM	9021	N	SER	C	768	71.270	47.484	9.495	1.00	27.79	C
ATOM	9022	CA	SER	C	768	72.448	46.669	9.247	1.00	27.79	C
ATOM	9023	CB	SER	C	768	73.363	46.679	10.466	1.00	46.09	C
ATOM	9024	OG	SER	C	768	72.821	45.857	11.485	1.00	46.09	C
ATOM	9025	C	SER	C	768	71.829	45.283	9.110	1.00	27.79	C
ATOM	9026	O	SER	C	768	70.766	45.033	9.678	1.00	27.79	C
ATOM	9027	N	PRO	C	769	72.473	44.362	8.375	1.00	38.14	C
ATOM	9028	CD	PRO	C	769	73.871	44.382	7.919	1.00	71.74	C
ATOM	9029	CA	PRO	C	769	71.892	43.019	8.229	1.00	38.14	C
ATOM	9030	CB	PRO	C	769	73.041	42.207	7.635	1.00	71.74	C
ATOM	9031	CG	PRO	C	769	74.270	42.950	8.112	1.00	71.74	C
ATOM	9032	C	PRO	C	769	71.394	42.452	9.558	1.00	38.14	C
ATOM	9033	O	PRO	C	769	71.317	43.166	10.559	1.00	38.14	C
ATOM	9034	N	GLU	C	770	71.086	41.163	9.588	1.00	70.11	C

ATOM	9035	CA	GLU	C	770	70.572	40.565	10.813	1.00	70.11	C
ATOM	9036	CB	GLU	C	770	71.501	40.817	12.006	1.00	100.07	C
ATOM	9037	CG	GLU	C	770	72.966	40.478	11.799	1.00	100.07	C
ATOM	9038	CD	GLU	C	770	73.769	41.638	11.242	1.00	100.07	C
ATOM	9039	OE1	GLU	C	770	73.574	42.781	11.714	1.00	100.07	C
ATOM	9040	OE2	GLU	C	770	74.607	41.401	10.345	1.00	100.07	C
ATOM	9041	C	GLU	C	770	69.265	41.298	11.049	1.00	70.11	C
ATOM	9042	O	GLU	C	770	68.221	40.874	10.571	1.00	70.11	C
ATOM	9043	N	GLU	C	771	69.334	42.410	11.778	1.00	44.18	C
ATOM	9044	CA	GLU	C	771	68.155	43.222	12.051	1.00	44.18	C
ATOM	9045	CB	GLU	C	771	68.580	44.532	12.721	1.00	100.07	C
ATOM	9046	CG	GLU	C	771	67.529	45.183	13.618	1.00	100.07	C
ATOM	9047	CD	GLU	C	771	66.710	46.262	12.914	1.00	100.07	C
ATOM	9048	OE1	GLU	C	771	65.912	45.918	12.011	1.00	100.07	C
ATOM	9049	OE2	GLU	C	771	66.866	47.458	13.265	1.00	100.07	C
ATOM	9050	C	GLU	C	771	67.503	43.479	10.682	1.00	44.18	C
ATOM	9051	O	GLU	C	771	66.282	43.371	10.514	1.00	44.18	C
ATOM	9052	N	ARG	C	772	68.328	43.798	9.692	1.00	35.17	C
ATOM	9053	CA	ARG	C	772	67.809	44.029	8.356	1.00	35.17	C
ATOM	9054	CB	ARG	C	772	68.928	44.482	7.414	1.00	100.07	C
ATOM	9055	CG	ARG	C	772	68.529	44.489	5.941	1.00	100.07	C
ATOM	9056	CD	ARG	C	772	69.583	45.128	5.035	1.00	100.07	C
ATOM	9057	NE	ARG	C	772	69.532	46.591	5.042	1.00	100.07	C
ATOM	9058	CZ	ARG	C	772	68.457	47.315	4.734	1.00	100.07	C
ATOM	9059	NH1	ARG	C	772	67.316	46.725	4.395	1.00	100.07	C
ATOM	9060	NH2	ARG	C	772	68.524	48.640	4.750	1.00	100.07	C
ATOM	9061	C	ARG	C	772	67.229	42.703	7.882	1.00	35.17	C
ATOM	9062	O	ARG	C	772	66.147	42.653	7.295	1.00	35.17	C
ATOM	9063	N	LEU	C	773	67.958	41.628	8.152	1.00	84.17	C
ATOM	9064	CA	LEU	C	773	67.521	40.294	7.769	1.00	84.17	C
ATOM	9065	CB	LEU	C	773	68.610	39.271	8.089	1.00	54.45	C
ATOM	9066	CG	LEU	C	773	68.142	37.826	8.307	1.00	54.45	C
ATOM	9067	CD1	LEU	C	773	67.332	37.321	7.119	1.00	54.45	C
ATOM	9068	CD2	LEU	C	773	69.362	36.960	8.534	1.00	54.45	C
ATOM	9069	C	LEU	C	773	66.229	39.886	8.468	1.00	84.17	C
ATOM	9070	O	LEU	C	773	65.241	39.552	7.810	1.00	84.17	C
ATOM	9071	N	LEU	C	774	66.248	39.900	9.800	1.00	74.93	C
ATOM	9072	CA	LEU	C	774	65.081	39.523	10.583	1.00	74.93	C
ATOM	9073	CB	LEU	C	774	65.252	39.885	12.057	1.00	69.96	C
ATOM	9074	CG	LEU	C	774	66.088	38.975	12.955	1.00	69.96	C
ATOM	9075	CD1	LEU								

ATOM	9119	N	GLU	C	780	58.259	43.739	7.272	1.00	55.93	C
ATOM	9120	CA	GLU	C	780	58.934	44.554	6.263	1.00	55.93	C
ATOM	9121	CB	GLU	C	780	57.924	45.069	5.234	1.00	100.07	C
ATOM	9122	CG	GLU	C	780	57.068	43.982	4.592	1.00	100.07	C
ATOM	9123	CD	GLU	C	780	56.017	44.547	3.642	1.00	100.07	C
ATOM	9124	OE1	GLU	C	780	56.380	44.984	2.524	1.00	100.07	C
ATOM	9125	OE2	GLU	C	780	54.824	44.562	4.022	1.00	100.07	C
ATOM	9126	C	GLU	C	780	59.645	45.734	6.902	1.00	55.93	C
ATOM	9127	O	GLU	C	780	59.339	46.105	8.035	1.00	55.93	C
ATOM	9128	N	LYS	C	781	60.601	46.310	6.178	1.00	99.18	C
ATOM	9129	CA	LYS	C	781	61.345	47.460	6.680	1.00	99.18	C
ATOM	9130	CB	LYS	C	781	62.604	47.687	5.843	1.00	85.95	C
ATOM	9131	CG	LYS	C	781	62.312	47.909	4.368	1.00	85.95	C
ATOM	9132	CD	LYS	C	781	63.511	48.493	3.628	1.00	85.95	C
ATOM	9133	CE	LYS	C	781	63.151	48.856	2.188	1.00	85.95	C
ATOM	9134	NZ	LYS	C	781	64.235	49.605	1.491	1.00	85.95	C
ATOM	9135	C	LYS	C	781	60.424	48.667	6.563	1.00	99.18	C
ATOM	9136	O	LYS	C	781	59.351	48.561	5.972	1.00	99.18	C
ATOM	9137	N	ALA	C	782	60.832	49.805	7.121	1.00	56.09	C
ATOM	9138	CA	ALA	C	782	60.020	51.025	7.058	1.00	56.09	C
ATOM	9139	CB	ALA	C	782	59.096	51.108	8.278	1.00	99.75	C
ATOM	9140	C	ALA	C	782	60.882	52.288	6.961	1.00	56.09	C
ATOM	9141	O	ALA	C	782	62.115	52.222	7.040	1.00	56.09	C
ATOM	9142	N	ARG	C	783	60.225	53.435	6.786	1.00	97.54	C
ATOM	9143	CA	ARG	C	783	60.916	54.724	6.665	1.00	97.54	C
ATOM	9144	CB	ARG	C	783	61.433	54.909	5.223	1.00	86.06	C
ATOM	9145	CG	ARG	C	783	60.639	54.163	4.122	1.00	86.06	C
ATOM	9146	CD	ARG	C	783	59.209	54.695	3.917	1.00	86.06	C
ATOM	9147	NE	ARG	C	783	58.446	53.884	2.961	1.00	86.06	C
ATOM	9148	CZ	ARG	C	783	57.262	54.217	2.447	1.00	86.06	C
ATOM	9149	NH1	ARG	C	783	56.674	55.359	2.782	1.00	86.06	C
ATOM	9150	NH2	ARG	C	783	56.663	53.402	1.589	1.00	86.06	C
ATOM	9151	C	ARG	C	783	60.062	55.935	7.061	1.00	97.54	C
ATOM	9152	O	ARG	C	783	60.210	57.009	6.481	1.00	97.54	C
ATOM	9153	N	ASP	C	784	59.197	55.777	8.062	1.00	100.07	C
ATOM	9154	CA	ASP	C	784	58.322	56.872	8.473	1.00	100.07	C
ATOM	9155	CB	ASP	C	784	57.030	56.792	7.685	1.00	39.87	C
ATOM	9156	CG	ASP	C	784	57.251	56.947	6.216	1.00	39.87	C
ATOM	9157	OD1	ASP	C	784	57.775	58.004	5.813	1.00	39.87	C
ATOM	9158	OD2	ASP	C	784	56.907	56.017	5.461	1.00	39.87	C
ATOM	9159	C	ASP	C	784	57.966	57.008	9.951	1.00	100.07	C
ATOM	9160	O	ASP	C	784	57.837	56.017	10.677	1.00	100.07	C
ATOM	9161	N	VAL	C	785	57.777	58.258	10.370	1.00	78.78	C
ATOM	9162	CA	VAL	C	785	57.421	58.592	11.746	1.00	78.78	C
ATOM	9163	CB	VAL	C	785	58.449	59.563	12.369	1.00	99.50	C
ATOM	9164	CG1	VAL	C	785	58.043	59.913	13.798	1.00	99.50	C
ATOM	9165	CG2	VAL	C	785	59.836	58.950	12.331	1.00	99.50	C
ATOM	9166	C	VAL	C	785	56.062	59.286	11.753	1.00	78.78	C
ATOM	9167	O	VAL	C	785	55.799	60.156	10.922	1.00	78.78	C
ATOM	9168	N	LYS	C	786	55.192	58.904	12.680	1.00	99.29	C
ATOM	9169	CA	LYS	C	786	53.886	59.542	12.749	1.00	99.29	C
ATOM	9170	CB	LYS	C	786	52.964	58.786	13.692	1.00	100.07	C
ATOM	9171	CG	LYS	C	786	53.517	58.643	15.076	1.00	100.07	C
ATOM	9172	CD	LYS	C	786	52.894	57.448	15.740	1.00	100.07	C
ATOM	9173	CE	LYS	C	786	53.713	56.992	16.927	1.00	100.07	C
ATOM	9174	NZ	LYS	C	786	53.301	55.634	17.397	1.00	100.07	C
ATOM	9175	C	LYS	C	786	54.135	60.919	13.301	1.00	99.29	C
ATOM	9176	O	LYS	C	786	55.175	61.153	13.909	1.00	99.29	C
ATOM	9177	N	ASP	C	787	53.198	61.833	13.078	1.00	89.06	C
ATOM	9178	CA	ASP	C	787	53.341	63.188	13.598	1.00	89.06	C
ATOM	9179	CB	ASP	C	787	54.167	64.066	12.644	1.00	38.50	C
ATOM	9180	CG	ASP	C	787	55.542	63.479	12.340	1.00	38.50	C
ATOM	9181	OD1	ASP	C	787	56.297	63.133	13.268	1.00	38.50	C
ATOM	9182	OD2	ASP	C	787	55.876	63.371	11.153	1.00	38.50	C
ATOM	9183	C	ASP	C	787	51.972	63.810	13.842	1.00	89.06	C
ATOM	9184	O	ASP	C	787	50.956	63.307	13.363	1.00	89.06	C
ATOM	9185	N	THR	C	788	51.970	64.906	14.594	1.00	72.43	C
ATOM	9186	CA	THR	C	788	50.760	65.636	14.976	1.00	72.43	C
ATOM	9187	CB	THR	C	788	49.879	66.033	13.783	1.00	100.04	C
ATOM	9188	OG1	THR	C	788	50.675	66.665	12.772	1.00	100.04	C
ATOM	9189	CG2	THR	C	788	48.781	67.000	14.259	1.00	100.04	C
ATOM	9190	C	THR	C	788	49.903	64.786	15.891	1.00	72.43	C
ATOM	9191	O	THR	C	788	50.010	63.563	15.883	1.00	72.43	C
ATOM	9192	N	SER	C	789	49.046	65.449	16.660	1.00	45.06	C
ATOM	9193	CA	SER	C	789	48.144	64.809	17.625	1.00	45.06	C
ATOM	9194	CB	SER	C	789	48.863	63.754	18.482	1.00	50.11	C
ATOM	9195	OG	SER	C	789	48.895	62.472	17.880	1.00	50.11	C
ATOM	9196	C	SER	C	789	47.709	65.935	18.541	1.00	45.06	C
ATOM	9197	O	SER	C	789	48.369	66.977	18.590	1.00	45.06	C
ATOM	9198	N	LEU	C	790	46.629	65.722	19.288	1.00	18.16	C
ATOM	9199	CA	LEU	C	790	46.110	66.753	20.196	1.00	18.16	C
ATOM	9200	CB	LEU	C	790	44.639	66.504	20.513	1.00	17.00	C
ATOM	9201	CG	LEU	C	790	44.249	67.121	21.841	1.00	17.00	C
ATOM	9202	CD1	LEU	C	790	44.518	68.596	21.829	1.00	17.00	C

ATOM	9203	CD2	LEU	C	790	42.808	66.858	22.074	1.00	17.00	C
ATOM	9204	C	LEU	C	790	46.861	66.966	21.504	1.00	18.16	C
ATOM	9205	O	LEU	C	790	47.034	66.049	22.304	1.00	18.16	C
ATOM	9206	N	ARG	C	791	47.240	68.224	21.709	1.00	45.09	C
ATOM	9207	CA	ARG	C	791	47.989	68.664	22.868	1.00	45.09	C
ATOM	9208	CB	ARG	C	791	47.940	70.194	22.993	1.00	100.07	C
ATOM	9209	CG	ARG	C	791	49.028	70.752	23.909	1.00	100.07	C
ATOM	9210	CD	ARG	C	791	48.640	72.069	24.570	1.00	100.07	C
ATOM	9211	NE	ARG	C	791	49.497	72.357	25.724	1.00	100.07	C
ATOM	9212	CZ	ARG	C	791	49.251	73.300	26.632	1.00	100.07	C
ATOM	9213	NH1	ARG	C	791	48.166	74.064	26.527	1.00	100.07	C
ATOM	9214	NH2	ARG	C	791	50.082	73.466	27.658	1.00	100.07	C
ATOM	9215	C	ARG	C	791	47.519	68.031	24.166	1.00	45.09	C
ATOM	9216	O	ARG	C	791	46.558	67.268	24.189	1.00	45.09	C
ATOM	9217	N	VAL	C	792	48.233	68.358	25.238	1.00	24.83	C
ATOM	9218	CA	VAL	C	792	47.964	67.870	26.575	1.00	24.83	C
ATOM	9219	CB	VAL	C	792	49.249	67.941	27.404	1.00	55.01	C
ATOM	9220	CG1	VAL	C	792	50.257	66.956	26.857	1.00	55.01	C
ATOM	9221	CG2	VAL	C	792	49.842	69.339	27.327	1.00	55.01	C
ATOM	9222	C	VAL	C	792	46.857	68.720	27.213	1.00	24.83	C
ATOM	9223	O	VAL	C	792	46.885	69.949	27.164	1.00	24.83	C
ATOM	9224	N	PRO	C	793	45.888	68.075	27.865	1.00	61.06	C
ATOM	9225	CD	PRO	C	793	46.311	66.994	28.776	1.00	100.07	C
ATOM	9226	CA	PRO	C	793	44.779	68.793	28.491	1.00	61.06	C
ATOM	9227	CB	PRO	C	793	45.286	68.961	29.911	1.00	100.07	C
ATOM	9228	CG	PRO	C	793	45.859	67.531	30.169	1.00	100.07	C
ATOM	9229	C	PRO	C	793	44.210	70.085	27.871	1.00	61.06	C
ATOM	9230	O	PRO	C	793	44.005	71.074	28.576	1.00	61.06	C
ATOM	9231	N	PRO	C	794	43.953	70.087	26.545	1.00	99.26	C
ATOM	9232	CD	PRO	C	794	44.723	69.290	25.576	1.00	100.07	C
ATOM	9233	CA	PRO	C	794	43.401	71.238	25.831	1.00	99.26	C
ATOM	9234	CB	PRO	C	794	44.583	71.695	25.006	1.00	100.07	C
ATOM	9235	CG	PRO	C	794	45.126	70.353	24.516	1.00	100.07	C
ATOM	9236	C	PRO	C	794	42.272	70.695	24.945	1.00	99.26	C
ATOM	9237	O	PRO	C	794	41.624	71.427	24.192	1.00	99.26	C
ATOM	9238	N	GLY	C	795	42.073	69.385	25.038	1.00	46.52	C
ATOM	9239	CA	GLY	C	795	41.042	68.728	24.269	1.00	46.52	C
ATOM	9240	C	GLY	C	795	39.761	68.629	25.070	1.00	46.52	C
ATOM	9241	O	GLY	C	795	38.771	69.258	24.689	1.00	46.52	C
ATOM	9242	N	GLU	C	796	39.788	67.849	26.166	1.00	75.64	C
ATOM	9243	CA	GLU	C	796	38.645	67.628	27.083	1.00	75.64	C
ATOM	9244	CB	GLU	C	796	38.259	68.942	27.779	1.00	79.10	C
ATOM	9245	CG	GLU	C	796	37.040	68.851	28.699	1.00	79.10	C
ATOM	9246	CD	GLU	C	796	36.127	70.067	28.592	1.00	79.10	C
ATOM	9247	OE1	GLU	C	796	35.550	70.280	27.504	1.00	79.10	C
ATOM	9248	OE2	GLU	C	796	35.987	70.806	29.592	1.00	79.10	C
ATOM	9249	C	GLU	C	796	37.408	67.059	26.385	1.00	75.64	C
ATOM	9250	O	GLU	C	796	36.369	66.824	27.007	1.00	75.64	C
ATOM	9251	N	GLY	C	797	37.542	66.823	25.088	1.00	100.07	C
ATOM	9252	CA	GLY	C	797	36.433	66.329	24.303	1.00	100.07	C
ATOM	9253	C	GLY	C	797	36.133	67.432	23.312	1.00	100.07	C
ATOM	9254	O	GLY	C	797	34.996	67.614	22.877	1.00	100.07	C
ATOM	9255	N	GLY	C	798	37.171	68.191	22.972	1.00	29.78	C
ATOM	9256	CA	GLY	C	798	36.997	69.269	22.031	1.00	29.78	C
ATOM	9257	C	GLY	C	798	36.429	68.635	20.786	1.00	29.78	C
ATOM	9258	O	GLY	C	798	37.158	68.067	19.975	1.00	29.78	C
ATOM	9259	N	ILE	C	799	35.120	68.709	20.626	1.00	45.20	C
ATOM	9260	CA	ILE	C	799	34.511	68.100	19.463	1.00	45.20	C
ATOM	9261	CB	ILE	C	799	32.993	67.954	19.686	1.00	36.50	C
ATOM	9262	CG2	ILE	C	799	32.731	67.156	20.966	1.00	36.50	C
ATOM	9263	CG1	ILE	C	799	32.348	69.319	19.871	1.00	36.50	C
ATOM	9264	CD	ILE	C	799	30.922	69.207	20.278	1.00	36.50	C
ATOM	9265	C	ILE	C	799	34.819	68.880	18.179	1.00	45.20	C
ATOM	9266	O	ILE	C	799	34.157	69.862	17.865	1.00	45.20	C
ATOM	9267	N	VAL	C	800	35.844	68.434	17.455	1.00	35.42	C
ATOM	9268	CA	VAL	C	800	36.278	69.056	16.204	1.00	35.42	C
ATOM	9269	CB	VAL	C	800	36.891	68.007	15.264	1.00	28.90	C
ATOM	9270	CG1	VAL	C	800	36.999	68.569	13.853	1.00	28.90	C
ATOM	9271	CG2	VAL	C	800	38.269	67.608	15.779	1.00	28.90	C
ATOM	9272	C	VAL	C	800	35.167	69.790	15.466	1.00	35.42	C
ATOM	9273	O	VAL	C	800	34.279	69.170	14.903	1.00	35.42	C
ATOM	9274	N	VAL	C	801	35.249	71.115	15.448	1.00	28.85	C
ATOM	9275	CA	VAL	C	801	34.231	71.940	14.826	1.00	28.85	C
ATOM	9276	CB	VAL	C	801	34.009	73.238	15.588	1.00	19.72	C
ATOM	9277	CG1	VAL	C	801	32.615	73.732	15.314	1.00	19.72	C
ATOM	9278	CG2	VAL	C	801	34.265	73.050	17.067	1.00	19.72	C
ATOM	9279	C	VAL	C	801	34.520	72.371	13.414	1.00	28.85	C
ATOM	9280	O	VAL	C	801	33.670	72.998	12.779	1.00	28.85	C
ATOM	9281	N	GLY	C	802	35.714	72.086	12.918	1.00	80.75	C
ATOM	9282	CA	GLY	C	802	36.017	72.494	11.562	1.00	80.75	C
ATOM	9283	C	GLY	C	802	37.467	72.315	11.193	1.00	80.75	C
ATOM	9284	O	GLY	C	802	38.331	72.198	12.063	1.00	80.75	C
ATOM	9285	N	ARG	C	803	37.733	72.292	9.893	1.00	20.60	C
ATOM	9286	CA	ARG	C	803	39.095	72.133	9.399	1.00	20.60	C

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ATOM	9287	CB	ARG	C	803	39.365	70.656	9.057	1.00100.07	C
ATOM	9288	CG	ARG	C	803	38.142	69.883	8.562	1.00100.07	C
ATOM	9289	CD	ARG	C	803	38.180	69.580	7.062	1.00100.07	C
ATOM	9290	NE	ARG	C	803	36.883	69.820	6.424	1.00100.07	C
ATOM	9291	CZ	ARG	C	803	36.583	69.500	5.168	1.00100.07	C
ATOM	9292	NH1	ARG	C	803	37.484	68.911	4.389	1.00100.07	C
ATOM	9293	NH2	ARG	C	803	35.385	69.790	4.682	1.00100.07	C
ATOM	9294	C	ARG	C	803	39.288	73.025	8.179	1.00 20.60	C
ATOM	9295	O	ARG	C	803	38.327	73.363	7.488	1.00 20.60	C
ATOM	9296	N	LEU	C	804	40.525	73.444	7.949	1.00 50.03	C
ATOM	9297	CA	LEU	C	804	40.863	74.271	6.801	1.00 50.03	C
ATOM	9298	CB	LEU	C	804	41.066	75.731	7.196	1.00 45.33	C
ATOM	9299	CG	LEU	C	804	41.890	76.518	6.166	1.00 45.33	C
ATOM	9300	CD1	LEU	C	804	41.250	76.369	4.799	1.00 45.33	C
ATOM	9301	CD2	LEU	C	804	41.997	77.994	6.554	1.00 45.33	C
ATOM	9302	C	LEU	C	804	42.160	73.724	6.243	1.00 50.03	C
ATOM	9303	O	LEU	C	804	43.031	73.265	6.991	1.00 50.03	C
ATOM	9304	N	ARG	C	805	42.292	73.777	4.928	1.00 57.38	C
ATOM	9305	CA	ARG	C	805	43.481	73.265	4.291	1.00 57.38	C
ATOM	9306	CB	ARG	C	805	43.224	71.858	3.758	1.00100.02	C
ATOM	9307	CG	ARG	C	805	42.202	71.780	2.619	1.00100.02	C
ATOM	9308	CD	ARG	C	805	40.873	72.462	2.962	1.00100.02	C
ATOM	9309	NE	ARG	C	805	39.797	72.075	2.047	1.00100.02	C
ATOM	9310	CZ	ARG	C	805	38.539	72.506	2.131	1.00100.02	C
ATOM	9311	NH1	ARG	C	805	38.177	73.354	3.089	1.00100.02	C
ATOM	9312	NH2	ARG	C	805	37.637	72.072	1.261	1.00100.02	C
ATOM	9313	C	ARG	C	805	43.879	74.155	3.153	1.00 57.38	C
ATOM	9314	O	ARG	C	805	43.126	74.318	2.196	1.00 57.38	C
ATOM	9315	N	LEU	C	806	45.051	74.760	3.259	1.00 48.35	C
ATOM	9316	CA	LEU	C	806	45.515	75.582	2.161	1.00 48.35	C
ATOM	9317	CB	LEU	C	806	45.464	77.082	2.517	1.00 33.54	C
ATOM	9318	CG	LEU	C	806	46.212	77.798	3.635	1.00 33.54	C
ATOM	9319	CD1	LEU	C	806	47.687	77.828	3.334	1.00 33.54	C
ATOM	9320	CD2	LEU	C	806	45.701	79.223	3.725	1.00 33.54	C
ATOM	9321	C	LEU	C	806	46.911	75.112	1.759	1.00 48.35	C
ATOM	9322	O	LEU	C	806	47.836	75.099	2.569	1.00 48.35	C
ATOM	9323	N	ARG	C	807	47.033	74.679	0.504	1.00 97.68	C
ATOM	9324	CA	ARG	C	807	48.290	74.170	-0.044	1.00 97.68	C
ATOM	9325	CB	ARG	C	807	48.071	72.749	-0.592	1.00 98.93	C
ATOM	9326	CG	ARG	C	807	46.648	72.436	-1.106	1.00 98.93	C
ATOM	9327	CD	ARG	C	807	46.246	73.311	-2.300	1.00 98.93	C
ATOM	9328	NE	ARG	C	807	45.070	72.803	-3.014	1.00 98.93	C
ATOM	9329	CZ	ARG	C	807	44.615	73.301	-4.165	1.00 98.93	C
ATOM	9330	NH1	ARG	C	807	45.231	74.326	-4.742	1.00 98.93	C
ATOM	9331	NH2	ARG	C	807	43.548	72.765	-4.745	1.00 98.93	C
ATOM	9332	C	ARG	C	807	48.868	75.080	-1.131	1.00 97.68	C
ATOM	9333	O	ARG	C	807	48.127	75.599	-1.972	1.00 97.68	C
ATOM	9334	N	ARG	C	808	50.188	75.276	-1.120	1.00 35.28	C
ATOM	9335	CA	ARG	C	808	50.791	76.147	-2.125	1.00 35.28	C
ATOM	9336	CB	ARG	C	808	52.322	76.153	-2.037	1.00 50.51	C
ATOM	9337	CG	ARG	C	808	52.998	74.942	-2.613	1.00 50.51	C
ATOM	9338	CD	ARG	C	808	54.506	75.143	-2.752	1.00 50.51	C
ATOM	9339	NE	ARG	C	808	55.163	73.862	-3.018	1.00 50.51	C
ATOM	9340	CZ	ARG	C	808	56.475	73.680	-3.108	1.00 50.51	C
ATOM	9341	NH1	ARG	C	808	57.303	74.701	-2.961	1.00 50.51	C
ATOM	9342	NH2	ARG	C	808	56.958	72.467	-3.323	1.00 50.51	C
ATOM	9343	C	ARG	C	808	50.352	75.682	-3.500	1.00 35.28	C
ATOM	9344	O	ARG	C	808	50.152	74.488	-3.732	1.00 35.28	C
ATOM	9345	N	GLY	C	809	50.194	76.627	-4.411	1.00 99.53	C
ATOM	9346	CA	GLY	C	809	49.754	76.270	-5.740	1.00 99.53	C
ATOM	9347	C	GLY	C	809	48.247	76.353	-5.753	1.00 99.53	C
ATOM	9348	O	GLY	C	809	47.585	75.666	-6.525	1.00 99.53	C
ATOM	9349	N	ASP	C	810	47.711	77.186	-4.866	1.00 72.09	C
ATOM	9350	CA	ASP	C	810	46.272	77.399	-4.770	1.00 72.09	C
ATOM	9351	CB	ASP	C	810	45.848	77.349	-3.301	1.00 95.21	C
ATOM	9352	CG	ASP	C	810	44.457	76.769	-3.114	1.00 95.21	C
ATOM	9353	OD1	ASP	C	810	43.556	77.113	-3.910	1.00 95.21	C
ATOM	9354	OD2	ASP	C	810	44.265	75.979	-2.163	1.00 95.21	C
ATOM	9355	C	ASP	C	810	46.033	78.781	-5.419	1.00 72.09	C
ATOM	9356	O	ASP	C	810	46.612	79.058	-6.464	1.00 72.09	C
ATOM	9357	N	PRO	C	811	45.209	79.669	-4.834	1.00 68.87	C
ATOM	9358	CD	PRO	C	811	44.476	79.824	-3.564	1.00 47.95	C
ATOM	9359	CA	PRO	C	811	45.119	80.909	-5.603	1.00 68.87	C
ATOM	9360	CB	PRO	C	811	43.955	81.619	-4.949	1.00 47.95	C
ATOM	9361	CG	PRO	C	811	44.205	81.326	-3.517	1.00 47.95	C
ATOM	9362	C	PRO	C	811	46.395	81.743	-5.519	1.00 68.87	C
ATOM	9363	O	PRO	C	811	46.915	82.199	-6.542	1.00 68.87	C
ATOM	9364	N	GLY	C	812	46.889	81.951	-4.298	1.00100.07	C
ATOM	9365	CA	GLY	C	812	48.096	82.746	-4.109	1.00100.07	C
ATOM	9366	C	GLY	C	812	48.864	82.466	-2.824	1.00100.07	C
ATOM	9367	O	GLY	C	812	50.098	82.427	-2.826	1.00100.07	C
ATOM	9368	N	VAL	C	813	48.132	82.295	-1.728	1.00 30.10	C
ATOM	9369	CA	VAL	C	813	48.715	81.994	-0.428	1.00 30.10	C
ATOM	9370	CB	VAL	C	813	48.208	80.633	0.086	1.00 57.90	C

ATOM	9371	CG1	VAL	C	813	47.903	80.728	1.579	1.00	57.90	C
ATOM	9372	CG2	VAL	C	813	47.000	80.180	-0.725	1.00	57.90	C
ATOM	9373	C	VAL	C	813	50.251	81.950	-0.341	1.00	30.10	C
ATOM	9374	O	VAL	C	813	50.910	81.077	-0.930	1.00	30.10	C
ATOM	9375	N	GLU	C	814	50.834	82.888	0.394	1.00	41.78	C
ATOM	9376	CA	GLU	C	814	52.274	82.846	0.552	1.00	41.78	C
ATOM	9377	CB	GLU	C	814	52.847	84.172	1.085	1.00	100.07	C
ATOM	9378	CG	GLU	C	814	54.401	84.176	1.136	1.00	100.07	C
ATOM	9379	CD	GLU	C	814	55.026	85.350	1.910	1.00	100.07	C
ATOM	9380	OE1	GLU	C	814	54.991	85.345	3.165	1.00	100.07	C
ATOM	9381	OE2	GLU	C	814	55.565	86.277	1.257	1.00	100.07	C
ATOM	9382	C	GLU	C	814	52.488	81.761	1.598	1.00	41.78	C
ATOM	9383	O	GLU	C	814	51.749	81.689	2.586	1.00	41.78	C
ATOM	9384	N	LEU	C	815	53.469	80.897	1.369	1.00	57.51	C
ATOM	9385	CA	LEU	C	815	53.775	79.858	2.336	1.00	57.51	C
ATOM	9386	CB	LEU	C	815	53.208	78.508	1.903	1.00	57.31	C
ATOM	9387	CG	LEU	C	815	51.743	78.345	2.307	1.00	57.31	C
ATOM	9388	CD1	LEU	C	815	50.871	79.124	1.343	1.00	57.31	C
ATOM	9389	CD2	LEU	C	815	51.358	76.874	2.307	1.00	57.31	C
ATOM	9390	C	LEU	C	815	55.269	79.748	2.571	1.00	57.51	C
ATOM	9391	O	LEU	C	815	56.022	79.367	1.679	1.00	57.51	C
ATOM	9392	N	LYS	C	816	55.677	80.105	3.787	1.00	66.37	C
ATOM	9393	CA	LYS	C	816	57.069	80.057	4.206	1.00	66.37	C
ATOM	9394	CB	LYS	C	816	57.166	79.641	5.676	1.00	92.74	C
ATOM	9395	CG	LYS	C	816	58.588	79.379	6.159	1.00	92.74	C
ATOM	9396	CD	LYS	C	816	59.456	80.630	6.064	1.00	92.74	C
ATOM	9397	CE	LYS	C	816	60.908	80.356	6.453	1.00	92.74	C
ATOM	9398	NZ	LYS	C	816	61.600	79.349	5.584	1.00	92.74	C
ATOM	9399	C	LYS	C	816	57.849	79.077	3.355	1.00	66.37	C
ATOM	9400	O	LYS	C	816	57.446	77.930	3.189	1.00	66.37	C
ATOM	9401	N	PRO	C	817	58.973	79.526	2.786	1.00	80.61	C
ATOM	9402	CD	PRO	C	817	59.620	80.837	2.935	1.00	71.98	C
ATOM	9403	CA	PRO	C	817	59.789	78.648	1.952	1.00	80.61	C
ATOM	9404	CB	PRO	C	817	61.119	79.401	1.855	1.00	71.98	C
ATOM	9405	CG	PRO	C	817	61.051	80.448	2.970	1.00	71.98	C
ATOM	9406	C	PRO	C	817	59.938	77.242	2.525	1.00	80.61	C
ATOM	9407	O	PRO	C	817	60.220	77.056	3.712	1.00	80.61	C
ATOM	9408	N	GLY	C	818	59.747	76.254	1.660	1.00	76.22	C
ATOM	9409	CA	GLY	C	818	59.847	74.876	2.087	1.00	76.22	C
ATOM	9410	C	GLY	C	818	58.445	74.459	2.442	1.00	76.22	C
ATOM	9411	O	GLY	C	818	57.922	73.474	1.928	1.00	76.22	C
ATOM	9412	N	VAL	C	819	57.824	75.236	3.318	1.00	43.58	C
ATOM	9413	CA	VAL	C	819	56.470	74.942	3.736	1.00	43.58	C
ATOM	9414	CB	VAL	C	819	55.876	76.087	4.557	1.00	100.07	C
ATOM	9415	CG1	VAL	C	819	54.455	75.749	4.963	1.00	100.07	C
ATOM	9416	CG2	VAL	C	819	56.739	76.339	5.777	1.00	100.07	C
ATOM	9417	C	VAL	C	819	55.631	74.737	2.495	1.00	43.58	C
ATOM	9418	O	VAL	C	819	55.767	75.465	1.512	1.00	43.58	C
ATOM	9419	N	ARG	C	820	54.782	73.722	2.556	1.00	37.99	C
ATOM	9420	CA	ARG	C	820	53.893	73.365	1.468	1.00	37.99	C
ATOM	9421	CB	ARG	C	820	54.561	72.321	0.589	1.00	77.32	C
ATOM	9422	CG	ARG	C	820	53.585	71.441	-0.143	1.00	77.32	C
ATOM	9423	CD	ARG	C	820	54.189	70.075	-0.377	1.00	77.32	C
ATOM	9424	NE	ARG	C	820	53.154	69.089	-0.659	1.00	77.32	C
ATOM	9425	CZ	ARG	C	820	53.374	67.784	-0.726	1.00	77.32	C
ATOM	9426	NH1	ARG	C	820	54.599	67.314	-0.531	1.00	77.32	C
ATOM	9427	NH2	ARG	C	820	52.370	66.954	-0.981	1.00	77.32	C
ATOM	9428	C	ARG	C	820	52.662	72.773	2.129	1.00	37.99	C
ATOM	9429	O	ARG	C	820	52.784	71.870	2.944	1.00	37.99	C
ATOM	9430	N	GLU	C	821	51.480	73.266	1.785	1.00	34.34	C
ATOM	9431	CA	GLU	C	821	50.271	72.760	2.410	1.00	34.34	C
ATOM	9432	CB	GLU	C	821	50.140	71.259	2.174	1.00	45.30	C
ATOM	9433	CG	GLU	C	821	48.816	70.696	2.628	1.00	45.30	C
ATOM	9434	CD	GLU	C	821	48.768	69.184	2.553	1.00	45.30	C
ATOM	9435	OE1	GLU	C	821	49.573	68.535	3.250	1.00	45.30	C
ATOM	9436	OE2	GLU	C	821	47.925	68.644	1.802	1.00	45.30	C
ATOM	9437	C	GLU	C	821	50.424	73.035	3.902	1.00	34.34	C
ATOM	9438	O	GLU	C	821	51.495	72.842	4.459	1.00	34.34	C
ATOM	9439	N	VAL	C	822	49.360	73.493	4.553	1.00	22.98	C
ATOM	9440	CA	VAL	C	822	49.416	73.796	5.986	1.00	22.98	C
ATOM	9441	CB	VAL	C	822	49.744	75.267	6.221	1.00	37.56	C
ATOM	9442	CG1	VAL	C	822	50.024	75.494	7.676	1.00	37.56	C
ATOM	9443	CG2	VAL	C	822	50.914	75.690	5.351	1.00	37.56	C
ATOM	9444	C	VAL	C	822	48.091	73.509	6.677	1.00	22.98	C
ATOM	9445	O	VAL	C	822	47.341	74.421	6.978	1.00	22.98	C
ATOM	9446	N	VAL	C	823	47.815	72.234	6.910	1.00	23.45	C
ATOM	9447	CA	VAL	C	823	46.602	71.783	7.574	1.00	23.45	C
ATOM	9448	CB	VAL	C	823	46.804	70.364	8.146	1.00	59.29	C
ATOM	9449	CG1	VAL	C	823	45.911	70.137	9.345	1.00	59.29	C
ATOM	9450	CG2	VAL	C	823	46.502	69.336	7.080	1.00	59.29	C
ATOM	9451	C	VAL	C	823	46.229	72.707	8.717	1.00	23.45	C
ATOM	9452	O	VAL	C	823	47.103	73.287	9.360	1.00	23.45	C
ATOM	9453	N	ARG	C	824	44.936	72.839	8.982	1.00	44.37	C
ATOM	9454	CA	ARG	C	824	44.486	73.687	10.069	1.00	44.37	C

ATOM	9455	CB	ARG	C	824	44.201	75.089	9.542	1.00	64.53	C
ATOM	9456	CG	ARG	C	824	44.423	76.177	10.562	1.00	64.53	C
ATOM	9457	CD	ARG	C	824	43.578	77.423	10.280	1.00	64.53	C
ATOM	9458	NE	ARG	C	824	44.062	78.249	9.175	1.00	64.53	C
ATOM	9459	CZ	ARG	C	824	45.188	78.958	9.197	1.00	64.53	C
ATOM	9460	NH1	ARG	C	824	45.967	78.946	10.271	1.00	64.53	C
ATOM	9461	NH2	ARG	C	824	45.523	79.701	8.148	1.00	64.53	C
ATOM	9462	C	ARG	C	824	43.211	73.050	10.608	1.00	44.37	C
ATOM	9463	O	ARG	C	824	42.293	72.763	9.837	1.00	44.37	C
ATOM	9464	N	VAL	C	825	43.151	72.804	11.917	1.00	18.28	C
ATOM	9465	CA	VAL	C	825	41.966	72.185	12.524	1.00	18.28	C
ATOM	9466	CB	VAL	C	825	42.222	70.742	12.969	1.00	8.45	C
ATOM	9467	CG1	VAL	C	825	40.958	70.182	13.592	1.00	8.45	C
ATOM	9468	CG2	VAL	C	825	42.694	69.894	11.825	1.00	8.45	C
ATOM	9469	C	VAL	C	825	41.520	72.918	13.781	1.00	18.28	C
ATOM	9470	O	VAL	C	825	42.290	73.016	14.753	1.00	18.28	C
ATOM	9471	N	PHE	C	826	40.271	73.387	13.775	1.00	35.68	C
ATOM	9472	CA	PHE	C	826	39.681	74.117	14.902	1.00	35.68	C
ATOM	9473	CB	PHE	C	826	38.703	75.141	14.374	1.00	16.17	C
ATOM	9474	CG	PHE	C	826	39.335	76.171	13.532	1.00	16.17	C
ATOM	9475	CD1	PHE	C	826	39.761	77.355	14.078	1.00	16.17	C
ATOM	9476	CD2	PHE	C	826	39.530	75.954	12.186	1.00	16.17	C
ATOM	9477	CE1	PHE	C	826	40.376	78.321	13.282	1.00	16.17	C
ATOM	9478	CE2	PHE	C	826	40.145	76.909	11.382	1.00	16.17	C
ATOM	9479	CZ	PHE	C	826	40.568	78.093	11.927	1.00	16.17	C
ATOM	9480	C	PHE	C	826	38.948	73.219	15.884	1.00	35.68	C
ATOM	9481	O	PHE	C	826	38.472	72.162	15.513	1.00	35.68	C
ATOM	9482	N	VAL	C	827	38.845	73.644	17.136	1.00	41.76	C
ATOM	9483	CA	VAL	C	827	38.149	72.845	18.137	1.00	41.76	C
ATOM	9484	CB	VAL	C	827	39.107	71.964	18.959	1.00	8.72	C
ATOM	9485	CG1	VAL	C	827	38.301	71.151	19.917	1.00	8.72	C
ATOM	9486	CG2	VAL	C	827	39.921	71.049	18.068	1.00	8.72	C
ATOM	9487	C	VAL	C	827	37.402	73.728	19.125	1.00	41.76	C
ATOM	9488	O	VAL	C	827	37.891	74.789	19.518	1.00	41.76	C
ATOM	9489	N	ALA	C	828	36.227	73.278	19.547	1.00	35.26	C
ATOM	9490	CA	ALA	C	828	35.426	74.051	20.483	1.00	35.26	C
ATOM	9491	CB	ALA	C	828	34.094	74.401	19.850	1.00	55.74	C
ATOM	9492	C	ALA	C	828	35.193	73.313	21.790	1.00	35.26	C
ATOM	9493	O	ALA	C	828	35.120	72.083	21.817	1.00	35.26	C
ATOM	9494	N	GLN	C	829	35.077	74.077	22.873	1.00	33.29	C
ATOM	9495	CA	GLN	C	829	34.827	73.509	24.191	1.00	33.29	C
ATOM	9496	CB	GLN	C	829	36.016	73.744	25.126	1.00	43.24	C
ATOM	9497	CG	GLN	C	829	37.247	72.928	24.816	1.00	43.24	C
ATOM	9498	CD	GLN	C	829	38.339	73.108	25.856	1.00	43.24	C
ATOM	9499	OE1	GLN	C	829	38.204	72.661	26.996	1.00	43.24	C
ATOM	9500	NE2	GLN	C	829	39.426	73.773	25.471	1.00	43.24	C
ATOM	9501	C	GLN	C	829	33.556	74.047	24.864	1.00	33.29	C
ATOM	9502	O	GLN	C	829	33.061	75.155	24.577	1.00	33.29	C
ATOM	9503	N	LYS	C	830	33.051	73.220	25.771	1.00	76.54	C
ATOM	9504	CA	LYS	C	830	31.866	73.489	26.570	1.00	76.54	C
ATOM	9505	CB	LYS	C	830	31.462	72.190	27.258	1.00	67.00	C
ATOM	9506	CG	LYS	C	830	32.665	71.354	27.716	1.00	67.00	C
ATOM	9507	CD	LYS	C	830	32.328	69.865	27.797	1.00	67.00	C
ATOM	9508	CE	LYS	C	830	31.698	69.332	26.497	1.00	67.00	C
ATOM	9509	NZ	LYS	C	830	32.531	69.581	25.291	1.00	67.00	C
ATOM	9510	C	LYS	C	830	32.167	74.562	27.613	1.00	76.54	C
ATOM	9511	O	LYS	C	830	31.812	75.727	27.447	1.00	76.54	C
ATOM	9512	N	ARG	C	831	32.827	74.152	28.689	1.00	61.12	C
ATOM	9513	CA	ARG	C	831	33.203	75.059	29.762	1.00	61.12	C
ATOM	9514	CB	ARG	C	831	34.043	76.230	29.238	1.00	67.15	C
ATOM	9515	CG	ARG	C	831	35.478	75.862	28.908	1.00	67.15	C
ATOM	9516	CD	ARG	C	831	36.324	77.076	28.549	1.00	67.15	C
ATOM	9517	NE	ARG	C	831	37.547	76.672	27.867	1.00	67.15	C
ATOM	9518	CZ	ARG	C	831	38.416	75.798	28.356	1.00	67.15	C
ATOM	9519	NH1	ARG	C	831	38.202	75.241	29.536	1.00	67.15	C
ATOM	9520	NH2	ARG	C	831	39.486	75.459	27.653	1.00	67.15	C
ATOM	9521	C	ARG	C	831	32.041	75.623	30.536	1.00	61.12	C
ATOM	9522	O	ARG	C	831	31.408	76.591	30.112	1.00	61.12	C
ATOM	9523	N	LYS	C	832	31.762	74.994	31.670	1.00	73.93	C
ATOM	9524	CA	LYS	C	832	30.716	75.439	32.569	1.00	73.93	C
ATOM	9525	CB	LYS	C	832	29.955	74.244	33.138	1.00	52.92	C
ATOM	9526	CG	LYS	C	832	29.265	73.396	32.087	1.00	52.92	C
ATOM	9527	CD	LYS	C	832	28.761	72.096	32.673	1.00	52.92	C
ATOM	9528	CE	LYS	C	832	27.673	72.341	33.700	1.00	52.92	C
ATOM	9529	NZ	LYS	C	832	27.416	71.142	34.549	1.00	52.92	C
ATOM	9530	C	LYS	C	832	31.570	76.105	33.636	1.00	73.93	C
ATOM	9531	O	LYS	C	832	32.720	76.444	33.363	1.00	73.93	C
ATOM	9532	N	LEU	C	833	31.050	76.280	34.843	1.00	36.60	C
ATOM	9533	CA	LEU	C	833	31.838	76.935	35.879	1.00	36.60	C
ATOM	9534	CB	LEU	C	833	30.934	77.862	36.695	1.00	25.51	C
ATOM	9535	CG	LEU	C	833	31.589	78.991	37.492	1.00	25.51	C
ATOM	9536	CD1	LEU	C	833	32.612	79.700	36.636	1.00	25.51	C
ATOM	9537	CD2	LEU	C	833	30.521	79.961	37.957	1.00	25.51	C
ATOM	9538	C	LEU	C	833	32.564	75.937	36.783	1.00	36.60	C

ATOM	9539	O	LEU	C	833	32.094	74.815	37.004	1.00	36.60	C
ATOM	9540	N	GLN	C	834	33.721	76.341	37.295	1.00	37.55	C
ATOM	9541	CA	GLN	C	834	34.502	75.461	38.157	1.00	37.55	C
ATOM	9542	CB	GLN	C	834	35.602	74.750	37.370	1.00	71.12	C
ATOM	9543	CG	GLN	C	834	35.162	73.912	36.191	1.00	71.12	C
ATOM	9544	CD	GLN	C	834	36.352	73.324	35.467	1.00	71.12	C
ATOM	9545	OE1	GLN	C	834	37.283	74.043	35.114	1.00	71.12	C
ATOM	9546	NE2	GLN	C	834	36.332	72.015	35.244	1.00	71.12	C
ATOM	9547	C	GLN	C	834	35.187	76.242	39.246	1.00	37.55	C
ATOM	9548	O	GLN	C	834	35.138	77.463	39.272	1.00	37.55	C
ATOM	9549	N	VAL	C	835	35.853	75.521	40.132	1.00	9.55	C
ATOM	9550	CA	VAL	C	835	36.578	76.157	41.199	1.00	9.55	C
ATOM	9551	CB	VAL	C	835	36.994	75.115	42.196	1.00	16.09	C
ATOM	9552	CG1	VAL	C	835	37.661	75.777	43.396	1.00	16.09	C
ATOM	9553	CG2	VAL	C	835	35.777	74.304	42.597	1.00	16.09	C
ATOM	9554	C	VAL	C	835	37.820	76.863	40.616	1.00	9.55	C
ATOM	9555	O	VAL	C	835	38.775	76.217	40.169	1.00	9.55	C
ATOM	9556	N	GLY	C	836	37.803	78.191	40.626	1.00	25.08	C
ATOM	9557	CA	GLY	C	836	38.901	78.974	40.086	1.00	25.08	C
ATOM	9558	C	GLY	C	836	38.199	80.124	39.413	1.00	25.08	C
ATOM	9559	O	GLY	C	836	37.379	80.798	40.043	1.00	25.08	C
ATOM	9560	N	ASP	C	837	38.502	80.355	38.144	1.00	24.55	C
ATOM	9561	CA	ASP	C	837	37.841	81.405	37.351	1.00	24.55	C
ATOM	9562	CB	ASP	C	837	36.629	80.804	36.614	1.00	59.95	C
ATOM	9563	CG	ASP	C	837	36.406	79.310	36.916	1.00	59.95	C
ATOM	9564	OD1	ASP	C	837	35.493	78.722	36.298	1.00	59.95	C
ATOM	9565	OD2	ASP	C	837	37.117	78.711	37.754	1.00	59.95	C
ATOM	9566	C	ASP	C	837	37.391	82.715	38.038	1.00	24.55	C
ATOM	9567	O	ASP	C	837	36.486	82.723	38.880	1.00	24.55	C
ATOM	9568	N	LYS	C	838	38.016	83.826	37.654	1.00	41.85	C
ATOM	9569	CA	LYS	C	838	37.662	85.126	38.215	1.00	41.85	C
ATOM	9570	CB	LYS	C	838	38.535	86.226	37.599	1.00	53.43	C
ATOM	9571	CG	LYS	C	838	39.899	86.354	38.250	1.00	53.43	C
ATOM	9572	CD	LYS	C	838	40.838	87.249	37.462	1.00	53.43	C
ATOM	9573	CE	LYS	C	838	40.427	88.704	37.500	1.00	53.43	C
ATOM	9574	NZ	LYS	C	838	41.269	89.528	36.569	1.00	53.43	C
ATOM	9575	C	LYS	C	838	36.184	85.424	37.952	1.00	41.85	C
ATOM	9576	O	LYS	C	838	35.688	85.190	36.845	1.00	41.85	C
ATOM	9577	N	LEU	C	839	35.480	85.946	38.960	1.00	17.69	C
ATOM	9578	CA	LEU	C	839	34.070	86.246	38.791	1.00	17.69	C
ATOM	9579	CB	LEU	C	839	33.275	85.643	39.936	1.00	20.55	C
ATOM	9580	CG	LEU	C	839	32.093	84.833	39.411	1.00	20.55	C
ATOM	9581	CD1	LEU	C	839	32.491	84.172	38.102	1.00	20.55	C
ATOM	9582	CD2	LEU	C	839	31.654	83.798	40.442	1.00	20.55	C
ATOM	9583	C	LEU	C	839	33.750	87.715	38.648	1.00	17.69	C
ATOM	9584	O	LEU	C	839	32.777	88.067	38.013	1.00	17.69	C
ATOM	9585	N	ALA	C	840	34.569	88.559	39.250	1.00	14.32	C
ATOM	9586	CA	ALA	C	840	34.428	90.013	39.192	1.00	14.32	C
ATOM	9587	CB	ALA	C	840	35.651	90.590	38.514	1.00	78.31	C
ATOM	9588	C	ALA	C	840	33.178	90.666	38.584	1.00	14.32	C
ATOM	9589	O	ALA	C	840	32.643	90.225	37.566	1.00	14.32	C
ATOM	9590	N	ASN	C	841	32.754	91.770	39.195	1.00	36.59	C
ATOM	9591	CA	ASN	C	841	31.582	92.514	38.733	1.00	36.59	C
ATOM	9592	CB	ASN	C	841	30.602	92.699	39.875	1.00	16.19	C
ATOM	9593	CG	ASN	C	841	31.234	93.358	41.057	1.00	16.19	C
ATOM	9594	OD1	ASN	C	841	30.674	93.327	42.144	1.00	16.19	C
ATOM	9595	ND2	ASN	C	841	32.410	93.958	40.863	1.00	16.19	C
ATOM	9596	C	ASN	C	841	31.946	93.881	38.187	1.00	36.59	C
ATOM	9597	O	ASN	C	841	33.083	94.112	37.808	1.00	36.59	C
ATOM	9598	N	ARG	C	842	30.978	94.793	38.171	1.00	31.18	C
ATOM	9599	CA	ARG	C	842	31.207	96.138	37.646	1.00	31.18	C
ATOM	9600	CB	ARG	C	842	29.885	96.764	37.215	1.00	36.79	C
ATOM	9601	CG	ARG	C	842	29.286	96.115	36.003	1.00	36.79	C
ATOM	9602	CD	ARG	C	842	27.890	96.610	35.763	1.00	36.79	C
ATOM	9603	NE	ARG	C	842	27.016	96.327	36.894	1.00	36.79	C
ATOM	9604	CZ	ARG	C	842	25.725	96.630	36.910	1.00	36.79	C
ATOM	9605	NH1	ARG	C	842	25.190	97.219	35.852	1.00	36.79	C
ATOM	9606	NH2	ARG	C	842	24.974	96.343	37.967	1.00	36.79	C
ATOM	9607	C	ARG	C	842	31.912	97.083	38.606	1.00	31.18	C
ATOM	9608	O	ARG	C	842	32.655	97.962	38.177	1.00	31.18	C
ATOM	9609	N	HIS	C	843	31.668	96.909	39.901	1.00	15.36	C
ATOM	9610	CA	HIS	C	843	32.284	97.751	40.914	1.00	15.36	C
ATOM	9611	CB	HIS	C	843	31.318	97.975	42.065	1.00	20.07	C
ATOM	9612	CG	HIS	C	843	29.971	98.462	41.639	1.00	20.07	C
ATOM	9613	CD2	HIS	C	843	28.730	98.015	41.937	1.00	20.07	C
ATOM	9614	ND1	HIS	C	843	29.797	99.567	40.834	1.00	20.07	C
ATOM	9615	CE1	HIS	C	843	28.507	99.785	40.656	1.00	20.07	C
ATOM	9616	NE2	HIS	C	843	27.837	98.857	41.316	1.00	20.07	C
ATOM	9617	C	HIS	C	843	33.521	97.036	41.422	1.00	15.36	C
ATOM	9618	O	HIS	C	843	33.739	96.903	42.617	1.00	15.36	C
ATOM	9619	N	GLY	C	844	34.324	96.555	40.491	1.00	24.47	C
ATOM	9620	CA	GLY	C	844	35.539	95.855	40.850	1.00	24.47	C
ATOM	9621	C	GLY	C	844	35.520	94.975	42.089	1.00	24.47	C
ATOM	9622	O	GLY	C	844	36.492	94.994	42.837	1.00	24.47	C

ATOM	9707	OE1	GLU	C	856	21.750	67.452	50.038	1.00	62.29	C
ATOM	9708	OE2	GLU	C	856	22.609	67.855	48.051	1.00	62.29	C
ATOM	9709	C	GLU	C	856	20.924	72.508	50.969	1.00	35.45	C
ATOM	9710	O	GLU	C	856	20.382	72.534	52.067	1.00	35.45	C
ATOM	9711	N	ASP	C	857	22.015	73.203	50.696	1.00	52.98	C
ATOM	9712	CA	ASP	C	857	22.582	74.101	51.676	1.00	52.98	C
ATOM	9713	CB	ASP	C	857	24.080	73.858	51.793	1.00	31.39	C
ATOM	9714	CG	ASP	C	857	24.387	72.454	52.271	1.00	31.39	C
ATOM	9715	OD1	ASP	C	857	23.670	71.995	53.181	1.00	31.39	C
ATOM	9716	OD2	ASP	C	857	25.330	71.810	51.753	1.00	31.39	C
ATOM	9717	C	ASP	C	857	22.267	75.521	51.230	1.00	52.98	C
ATOM	9718	O	ASP	C	857	21.123	75.812	50.867	1.00	52.98	C
ATOM	9719	N	MET	C	858	23.259	76.404	51.230	1.00	35.76	C
ATOM	9720	CA	MET	C	858	23.011	77.787	50.830	1.00	35.76	C
ATOM	9721	CB	MET	C	858	22.194	77.820	49.530	1.00	16.55	C
ATOM	9722	CG	MET	C	858	22.960	77.257	48.370	1.00	16.55	C
ATOM	9723	SD	MET	C	858	24.634	77.926	48.386	1.00	16.55	C
ATOM	9724	CE	MET	C	858	24.321	79.453	47.528	1.00	16.55	C
ATOM	9725	C	MET	C	858	22.265	78.517	51.945	1.00	35.76	C
ATOM	9726	O	MET	C	858	22.374	78.155	53.116	1.00	35.76	C
ATOM	9727	N	PRO	C	859	21.546	79.589	51.607	1.00	59.65	C
ATOM	9728	CD	PRO	C	859	21.970	80.618	50.641	1.00	69.85	C
ATOM	9729	CA	PRO	C	859	20.859	80.221	52.725	1.00	59.65	C
ATOM	9730	CB	PRO	C	859	21.655	81.502	52.896	1.00	69.85	C
ATOM	9731	CG	PRO	C	859	21.903	81.910	51.466	1.00	69.85	C
ATOM	9732	C	PRO	C	859	19.364	80.460	52.439	1.00	59.65	C
ATOM	9733	O	PRO	C	859	18.931	81.603	52.283	1.00	59.65	C
ATOM	9734	N	ALA	C	860	18.588	79.375	52.379	1.00	57.41	C
ATOM	9735	CA	ALA	C	860	17.142	79.431	52.115	1.00	57.41	C
ATOM	9736	CB	ALA	C	860	16.391	78.318	52.933	1.00	5.07	C
ATOM	9737	C	ALA	C	860	16.553	80.793	52.452	1.00	57.41	C
ATOM	9738	O	ALA	C	860	16.683	81.263	53.580	1.00	57.41	C
ATOM	9739	N	LEU	C	861	15.934	81.450	51.479	1.00	31.25	C
ATOM	9740	CA	LEU	C	861	15.300	82.726	51.778	1.00	31.25	C
ATOM	9741	CB	LEU	C	861	14.834	83.423	50.498	1.00	26.02	C
ATOM	9742	CG	LEU	C	861	14.736	84.960	50.547	1.00	26.02	C
ATOM	9743	CD1	LEU	C	861	16.093	85.533	50.919	1.00	26.02	C
ATOM	9744	CD2	LEU	C	861	14.258	85.528	49.209	1.00	26.02	C
ATOM	9745	C	LEU	C	861	14.107	82.209	52.576	1.00	31.25	C
ATOM	9746	O	LEU	C	861	13.994	80.998	52.771	1.00	31.25	C
ATOM	9747	N	PRO	C	862	13.202	83.085	53.048	1.00	45.19	C
ATOM	9748	CD	PRO	C	862	13.204	84.553	53.087	1.00	49.83	C
ATOM	9749	CA	PRO	C	862	12.066	82.568	53.815	1.00	45.19	C
ATOM	9750	CB	PRO	C	862	11.422	83.830	54.363	1.00	49.83	C
ATOM	9751	CG	PRO	C	862	11.756	84.844	53.340	1.00	49.83	C
ATOM	9752	C	PRO	C	862	11.056	81.664	53.121	1.00	45.19	C
ATOM	9753	O	PRO	C	862	10.532	80.740	53.747	1.00	45.19	C
ATOM	9754	N	ASP	C	863	10.789	81.916	51.840	1.00	19.47	C
ATOM	9755	CA	ASP	C	863	9.811	81.120	51.090	1.00	19.47	C
ATOM	9756	CB	ASP	C	863	8.980	82.036	50.215	1.00	32.30	C
ATOM	9757	CG	ASP	C	863	9.775	82.584	49.074	1.00	32.30	C
ATOM	9758	OD1	ASP	C	863	9.360	83.601	48.496	1.00	32.30	C
ATOM	9759	OD2	ASP	C	863	10.822	81.990	48.746	1.00	32.30	C
ATOM	9760	C	ASP	C	863	10.467	80.091	50.192	1.00	19.47	C
ATOM	9761	O	ASP	C	863	9.867	79.626	49.228	1.00	19.47	C
ATOM	9762	N	GLY	C	864	11.710	79.757	50.497	1.00	53.01	C
ATOM	9763	CA	GLY	C	864	12.434	78.805	49.680	1.00	53.01	C
ATOM	9764	C	GLY	C	864	13.495	79.544	48.891	1.00	53.01	C
ATOM	9765	O	GLY	C	864	14.421	80.116	49.464	1.00	53.01	C
ATOM	9766	N	THR	C	865	13.346	79.549	47.574	1.00	38.13	C
ATOM	9767	CA	THR	C	865	14.291	80.218	46.694	1.00	38.13	C
ATOM	9768	CB	THR	C	865	13.911	81.698	46.462	1.00	56.51	C
ATOM	9769	OG1	THR	C	865	13.730	82.342	47.726	1.00	56.51	C
ATOM	9770	CG2	THR	C	865	12.630	81.811	45.633	1.00	56.51	C
ATOM	9771	C	THR	C	865	15.696	80.181	47.269	1.00	38.13	C
ATOM	9772	O	THR	C	865	16.038	80.983	48.133	1.00	38.13	C
ATOM	9773	N	PRO	C	866	16.536	79.250	46.793	1.00	19.58	C
ATOM	9774	CD	PRO	C	866	16.488	78.478	45.538	1.00	57.39	C
ATOM	9775	CA	PRO	C	866	17.886	79.219	47.345	1.00	19.58	C
ATOM	9776	CB	PRO	C	866	18.512	78.048	46.620	1.00	57.39	C
ATOM	9777	CG	PRO	C	866	17.971	78.243	45.249	1.00	57.39	C
ATOM	9778	C	PRO	C	866	18.506	80.515	46.905	1.00	19.58	C
ATOM	9779	O	PRO	C	866	17.885	81.292	46.180	1.00	19.58	C
ATOM	9780	N	VAL	C	867	19.729	80.756	47.332	1.00	52.39	C
ATOM	9781	CA	VAL	C	867	20.383	81.963	46.907	1.00	52.39	C
ATOM	9782	CB	VAL	C	867	21.013	82.694	48.090	1.00	22.98	C
ATOM	9783	CG1	VAL	C	867	21.695	83.958	47.613	1.00	22.98	C
ATOM	9784	CG2	VAL	C	867	19.940	83.057	49.072	1.00	22.98	C
ATOM	9785	C	VAL	C	867	21.429	81.595	45.866	1.00	52.39	C
ATOM	9786	O	VAL	C	867	22.191	80.646	46.035	1.00	52.39	C
ATOM	9787	N	ASP	C	868	21.426	82.334	44.767	1.00	36.26	C
ATOM	9788	CA	ASP	C	868	22.368	82.101	43.706	1.00	36.26	C
ATOM	9789	CB	ASP	C	868	22.234	83.169	42.622	1.00	64.66	C
ATOM	9790	CG	ASP	C	868	21.019	82.961	41.747	1.00	64.66	C

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ATOM	9791	OD1	ASP	C	968	20.744	81.796	41.397	1.00	64.66	C
ATOM	9792	OD2	ASP	C	868	20.346	83.954	41.394	1.00	64.66	C
ATOM	9793	C	ASP	C	868	23.792	82.102	44.236	1.00	36.26	C
ATOM	9794	O	ASP	C	868	24.351	81.043	44.510	1.00	36.26	C
ATOM	9795	N	VAL	C	869	24.379	83.286	44.407	1.00	20.02	C
ATOM	9796	CA	VAL	C	869	25.764	83.361	44.849	1.00	20.02	C
ATOM	9797	CB	VAL	C	869	26.652	83.772	43.688	1.00	36.58	C
ATOM	9798	CG1	VAL	C	869	27.459	85.022	44.042	1.00	36.58	C
ATOM	9799	CG2	VAL	C	869	27.536	82.576	43.299	1.00	36.58	C
ATOM	9800	C	VAL	C	869	26.044	84.269	46.016	1.00	20.02	C
ATOM	9801	O	VAL	C	869	25.534	85.374	46.076	1.00	20.02	C
ATOM	9802	N	ILE	C	870	26.878	83.783	46.929	1.00	44.04	C
ATOM	9803	CA	ILE	C	870	27.270	84.494	48.143	1.00	44.04	C
ATOM	9804	CB	ILE	C	870	27.496	83.509	49.294	1.00	15.22	C
ATOM	9805	CG2	ILE	C	870	28.318	84.174	50.408	1.00	15.22	C
ATOM	9806	CG1	ILE	C	870	26.174	82.957	49.795	1.00	15.22	C
ATOM	9807	CD	ILE	C	870	26.377	81.914	50.899	1.00	15.22	C
ATOM	9808	C	ILE	C	870	28.590	85.241	47.981	1.00	44.04	C
ATOM	9809	O	ILE	C	870	29.575	84.661	47.530	1.00	44.04	C
ATOM	9810	N	LEU	C	871	28.609	86.514	48.372	1.00	16.83	C
ATOM	9811	CA	LEU	C	871	29.818	87.335	48.325	1.00	16.83	C
ATOM	9812	CB	LEU	C	871	29.553	88.652	47.580	1.00	35.83	C
ATOM	9813	CG	LEU	C	871	29.890	88.781	46.078	1.00	35.83	C
ATOM	9814	CD1	LEU	C	871	29.426	87.574	45.300	1.00	35.83	C
ATOM	9815	CD2	LEU	C	871	29.241	90.029	45.514	1.00	35.83	C
ATOM	9816	C	LEU	C	871	30.179	87.590	49.792	1.00	16.83	C
ATOM	9817	O	LEU	C	871	29.319	87.498	50.671	1.00	16.83	C
ATOM	9818	N	ASN	C	872	31.443	87.895	50.069	1.00	57.66	C
ATOM	9819	CA	ASN	C	872	31.867	88.127	51.449	1.00	57.66	C
ATOM	9820	CB	ASN	C	872	33.271	87.615	51.690	1.00	30.76	C
ATOM	9821	CG	ASN	C	872	33.717	87.867	53.101	1.00	30.76	C
ATOM	9822	OD1	ASN	C	872	32.923	88.300	53.946	1.00	30.76	C
ATOM	9823	ND2	ASN	C	872	34.984	87.588	53.381	1.00	30.76	C
ATOM	9824	C	ASN	C	872	31.829	89.564	51.931	1.00	57.66	C
ATOM	9825	O	ASN	C	872	32.784	90.315	51.759	1.00	57.66	C
ATOM	9826	N	PRO	C	873	30.756	89.930	52.630	1.00	24.13	C
ATOM	9827	CD	PRO	C	873	30.040	88.951	53.463	1.00	100.07	C
ATOM	9828	CA	PRO	C	873	30.552	91.276	53.164	1.00	24.13	C
ATOM	9829	CB	PRO	C	873	29.469	91.067	54.208	1.00	100.07	C
ATOM	9830	CG	PRO	C	873	29.821	89.726	54.747	1.00	100.07	C
ATOM	9831	C	PRO	C	873	31.804	91.791	53.804	1.00	24.13	C
ATOM	9832	O	PRO	C	873	32.051	92.977	53.801	1.00	24.13	C
ATOM	9833	N	LEU	C	874	32.592	90.893	54.371	1.00	33.95	C
ATOM	9834	CA	LEU	C	874	33.804	91.322	55.039	1.00	33.95	C
ATOM	9835	CB	LEU	C	874	34.558	90.139	55.634	1.00	49.91	C
ATOM	9836	CG	LEU	C	874	35.833	90.534	56.372	1.00	49.91	C
ATOM	9837	CD1	LEU	C	874	35.580	91.720	57.284	1.00	49.91	C
ATOM	9838	CD2	LEU	C	874	36.313	89.342	57.147	1.00	49.91	C
ATOM	9839	C	LEU	C	874	34.713	92.074	54.115	1.00	33.95	C
ATOM	9840	O	LEU	C	874	34.532	92.041	52.903	1.00	33.95	C
ATOM	9841	N	GLY	C	875	35.688	92.749	54.716	1.00	57.62	C
ATOM	9842	CA	GLY	C	875	36.644	93.538	53.973	1.00	57.62	C
ATOM	9843	C	GLY	C	875	36.093	94.038	52.655	1.00	57.62	C
ATOM	9844	O	GLY	C	875	35.702	95.206	52.526	1.00	57.62	C
ATOM	9845	N	VAL	C	876	36.050	93.117	51.694	1.00	49.45	C
ATOM	9846	CA	VAL	C	876	35.597	93.353	50.332	1.00	49.45	C
ATOM	9847	CB	VAL	C	876	34.764	92.167	49.811	1.00	100.07	C
ATOM	9848	CG1	VAL	C	876	34.738	92.195	48.294	1.00	100.07	C
ATOM	9849	CG2	VAL	C	876	35.366	90.848	50.294	1.00	100.07	C
ATOM	9850	C	VAL	C	876	34.852	94.661	50.075	1.00	49.45	C
ATOM	9851	O	VAL	C	876	35.052	95.285	49.022	1.00	49.45	C
ATOM	9852	N	PRO	C	877	33.942	95.070	50.981	1.00	75.50	C
ATOM	9853	CD	PRO	C	877	33.070	94.231	51.819	1.00	39.36	C
ATOM	9854	CA	PRO	C	877	33.283	96.345	50.681	1.00	75.50	C
ATOM	9855	CB	PRO	C	877	31.821	96.081	51.042	1.00	39.36	C
ATOM	9856	CG	PRO	C	877	31.947	95.197	52.210	1.00	39.36	C
ATOM	9857	C	PRO	C	877	33.904	97.499	51.482	1.00	75.50	C
ATOM	9858	O	PRO	C	877	34.278	98.523	50.909	1.00	75.50	C
ATOM	9859	N	SER	C	878	34.058	97.324	52.791	1.00	21.99	C
ATOM	9860	CA	SER	C	878	34.611	98.394	53.618	1.00	21.99	C
ATOM	9861	CB	SER	C	878	34.824	97.909	55.024	1.00	16.84	C
ATOM	9862	OG	SER	C	878	35.856	96.954	54.973	1.00	16.84	C
ATOM	9863	C	SER	C	878	35.943	98.894	53.090	1.00	21.99	C
ATOM	9864	O	SER	C	878	35.992	99.890	52.368	1.00	21.99	C
ATOM	9865	N	ARG	C	879	37.013	98.191	53.470	1.00	38.33	C
ATOM	9866	CA	ARG	C	879	38.391	98.508	53.087	1.00	38.33	C
ATOM	9867	CB	ARG	C	879	39.207	97.232	52.927	1.00	66.17	C
ATOM	9868	CG	ARG	C	879	38.944	96.148	53.944	1.00	66.17	C
ATOM	9869	CD	ARG	C	879	39.707	94.908	53.531	1.00	66.17	C
ATOM	9870	NE	ARG	C	879	40.075	94.062	54.658	1.00	66.17	C
ATOM	9871	CZ	ARG	C	879	40.983	93.094	54.579	1.00	66.17	C
ATOM	9872	NH1	ARG	C	879	41.597	92.868	53.425	1.00	66.17	C
ATOM	9873	NH2	ARG	C	879	41.283	92.358	55.648	1.00	66.17	C
ATOM	9874	C	ARG	C	879	38.452	99.221	51.756	1.00	38.33	C

ATOM	9875	O	ARG	C	879	38.993	100.323	51.633	1.00	38.33	C
ATOM	9876	N	MET	C	880	37.871	98.547	50.770	1.00	35.34	C
ATOM	9877	CA	MET	C	880	37.830	98.960	49.384	1.00	35.34	C
ATOM	9878	CB	MET	C	880	37.513	97.705	48.579	1.00	95.06	C
ATOM	9879	CG	MET	C	880	37.955	96.454	49.345	1.00	95.06	C
ATOM	9880	SD	MET	C	880	37.783	94.867	48.513	1.00	95.06	C
ATOM	9881	CE	MET	C	880	39.395	94.119	48.842	1.00	95.06	C
ATOM	9882	C	MET	C	880	36.913	100.135	48.993	1.00	35.34	C
ATOM	9883	O	MET	C	880	37.002	100.636	47.865	1.00	35.34	C
ATOM	9884	N	ASN	C	881	36.045	100.576	49.907	1.00	7.65	C
ATOM	9885	CA	ASN	C	881	35.136	101.713	49.658	1.00	7.65	C
ATOM	9886	CB	ASN	C	881	35.912	103.058	49.617	1.00	29.82	C
ATOM	9887	CG	ASN	C	881	37.019	103.188	50.695	1.00	29.82	C
ATOM	9888	OD1	ASN	C	881	37.795	104.154	50.679	1.00	29.82	C
ATOM	9889	ND2	ASN	C	881	37.091	102.232	51.617	1.00	29.82	C
ATOM	9890	C	ASN	C	881	34.362	101.601	48.330	1.00	7.65	C
ATOM	9891	O	ASN	C	881	34.843	102.077	47.316	1.00	7.65	C
ATOM	9892	N	LEU	C	882	33.175	101.001	48.323	1.00	45.54	C
ATOM	9893	CA	LEU	C	882	32.390	100.878	47.085	1.00	45.54	C
ATOM	9894	CB	LEU	C	882	32.932	99.735	46.223	1.00	13.17	C
ATOM	9895	CG	LEU	C	882	33.340	98.477	46.999	1.00	13.17	C
ATOM	9896	CD1	LEU	C	882	33.223	97.214	46.156	1.00	13.17	C
ATOM	9897	CD2	LEU	C	882	34.756	98.670	47.469	1.00	13.17	C
ATOM	9898	C	LEU	C	882	30.889	100.644	47.301	1.00	45.54	C
ATOM	9899	O	LEU	C	882	30.497	99.632	47.869	1.00	45.54	C
ATOM	9900	N	GLY	C	883	30.053	101.574	46.845	1.00	28.44	C
ATOM	9901	CA	GLY	C	883	28.620	101.407	46.979	1.00	28.44	C
ATOM	9902	C	GLY	C	883	28.130	100.495	45.856	1.00	28.44	C
ATOM	9903	O	GLY	C	883	27.422	100.929	44.934	1.00	28.44	C
ATOM	9904	N	GLN	C	884	28.552	99.229	45.889	1.00	100.07	C
ATOM	9905	CA	GLN	C	884	28.121	98.234	44.894	1.00	100.07	C
ATOM	9906	CB	GLN	C	884	28.981	96.962	44.971	1.00	20.42	C
ATOM	9907	CG	GLN	C	884	29.085	96.368	46.371	1.00	20.42	C
ATOM	9908	CD	GLN	C	884	30.264	95.417	46.546	1.00	20.42	C
ATOM	9909	OE1	GLN	C	884	30.266	94.296	46.025	1.00	20.42	C
ATOM	9910	NE2	GLN	C	884	31.275	95.862	47.291	1.00	20.42	C
ATOM	9911	C	GLN	C	884	26.743	97.922	45.400	1.00	100.07	C
ATOM	9912	O	GLN	C	884	25.778	97.745	44.656	1.00	100.07	C
ATOM	9913	N	ILE	C	885	26.707	97.877	46.719	1.00	48.67	C
ATOM	9914	CA	ILE	C	885	25.539	97.624	47.502	1.00	48.67	C
ATOM	9915	CB	ILE	C	885	25.816	98.135	48.890	1.00	5.07	C
ATOM	9916	CG2	ILE	C	885	24.652	97.826	49.810	1.00	5.07	C
ATOM	9917	CG1	ILE	C	885	27.111	97.499	49.390	1.00	5.07	C
ATOM	9918	CD	ILE	C	885	27.175	95.993	49.180	1.00	5.07	C
ATOM	9919	C	ILE	C	885	24.287	98.271	46.921	1.00	48.67	C
ATOM	9920	O	ILE	C	885	23.231	97.640	46.864	1.00	48.67	C
ATOM	9921	N	LEU	C	886	24.395	99.520	46.483	1.00	44.11	C
ATOM	9922	CA	LEU	C	886	23.240	100.186	45.901	1.00	44.11	C
ATOM	9923	CB	LEU	C	886	23.497	101.683	45.749	1.00	20.52	C
ATOM	9924	CG	LEU	C	886	23.731	102.478	47.042	1.00	20.52	C
ATOM	9925	CD1	LEU	C	886	24.076	103.893	46.651	1.00	20.52	C
ATOM	9926	CD2	LEU	C	886	22.520	102.459	47.950	1.00	20.52	C
ATOM	9927	C	LEU	C	886	22.914	99.554	44.553	1.00	44.11	C
ATOM	9928	O	LEU	C	886	22.866	100.208	43.516	1.00	44.11	C
ATOM	9929	N	GLU	C	887	22.707	98.249	44.603	1.00	46.04	C
ATOM	9930	CA	GLU	C	887	22.359	97.446	43.452	1.00	46.04	C
ATOM	9931	CB	GLU	C	887	23.604	96.979	42.697	1.00	47.41	C
ATOM	9932	CG	GLU	C	887	23.277	96.054	41.527	1.00	47.41	C
ATOM	9933	CD	GLU	C	887	24.510	95.534	40.793	1.00	47.41	C
ATOM	9934	OE1	GLU	C	887	25.343	96.353	40.346	1.00	47.41	C
ATOM	9935	OE2	GLU	C	887	24.640	94.300	40.651	1.00	47.41	C
ATOM	9936	C	GLU	C	887	21.670	96.256	44.084	1.00	46.04	C
ATOM	9937	O	GLU	C	887	20.512	95.973	43.822	1.00	46.04	C
ATOM	9938	N	THR	C	888	22.400	95.572	44.944	1.00	15.52	C
ATOM	9939	CA	THR	C	888	21.879	94.422	45.646	1.00	15.52	C
ATOM	9940	CB	THR	C	888	22.929	93.960	46.629	1.00	39.97	C
ATOM	9941	OG1	THR	C	888	24.218	94.175	46.049	1.00	39.97	C
ATOM	9942	CG2	THR	C	888	22.750	92.496	46.967	1.00	39.97	C
ATOM	9943	C	THR	C	888	20.596	94.826	46.414	1.00	15.52	C
ATOM	9944	O	THR	C	888	19.844	93.969	46.913	1.00	15.52	C
ATOM	9945	N	HIS	C	889	20.377	96.140	46.537	1.00	46.14	C
ATOM	9946	CA	HIS	C	889	19.202	96.680	47.221	1.00	46.14	C
ATOM	9947	CB	HIS	C	889	19.553	97.940	48.004	1.00	27.47	C
ATOM	9948	CG	HIS	C	889	20.365	97.674	49.238	1.00	27.47	C
ATOM	9949	CD2	HIS	C	889	20.865	96.521	49.748	1.00	27.47	C
ATOM	9950	ND1	HIS	C	889	20.758	98.673	50.105	1.00	27.47	C
ATOM	9951	CE1	HIS	C	889	21.464	98.149	51.092	1.00	27.47	C
ATOM	9952	NE2	HIS	C	889	21.546	96.846	50.900	1.00	27.47	C
ATOM	9953	C	HIS	C	889	18.164	96.984	46.161	1.00	46.14	C
ATOM	9954	O	HIS	C	889	17.050	96.473	46.228	1.00	46.14	C
ATOM	9955	N	LEU	C	890	18.506	97.811	45.177	1.00	12.42	C
ATOM	9956	CA	LEU	C	890	17.556	98.061	44.097	1.00	12.42	C
ATOM	9957	CB	LEU	C	890	17.953	99.282	43.255	1.00	5.07	C
ATOM	9958	CG	LEU	C	890	17.402	99.344	41.815	1.00	5.07	C

ATOM	9959	CD1	LEU	C	890	15.901	99.132	41.832	1.00	5.07	C
ATOM	9960	CD2	LEU	C	890	17.759	100.655	41.155	1.00	5.07	C
ATOM	9961	C	LEU	C	890	17.662	96.782	43.271	1.00	12.42	C
ATOM	9962	O	LEU	C	890	17.508	96.780	42.047	1.00	12.42	C
ATOM	9963	N	GLY	C	891	17.957	95.689	43.977	1.00	80.89	C
ATOM	9964	CA	GLY	C	891	18.101	94.378	43.368	1.00	80.89	C
ATOM	9965	C	GLY	C	891	16.847	93.573	43.603	1.00	80.89	C
ATOM	9966	O	GLY	C	891	16.156	93.221	42.650	1.00	80.89	C
ATOM	9967	N	LEU	C	892	16.552	93.266	44.862	1.00	28.36	C
ATOM	9968	CA	LEU	C	892	15.327	92.537	45.141	1.00	28.36	C
ATOM	9969	CB	LEU	C	892	15.209	92.169	46.621	1.00	22.53	C
ATOM	9970	CG	LEU	C	892	15.498	93.223	47.673	1.00	22.53	C
ATOM	9971	CD1	LEU	C	892	15.167	92.669	49.058	1.00	22.53	C
ATOM	9972	CD2	LEU	C	892	16.968	93.612	47.574	1.00	22.53	C
ATOM	9973	C	LEU	C	892	14.201	93.477	44.730	1.00	28.36	C
ATOM	9974	O	LEU	C	892	13.146	93.049	44.240	1.00	28.36	C
ATOM	9975	N	ALA	C	893	14.435	94.770	44.911	1.00	61.38	C
ATOM	9976	CA	ALA	C	893	13.450	95.767	44.512	1.00	61.38	C
ATOM	9977	CB	ALA	C	893	13.846	97.133	45.041	1.00	75.49	C
ATOM	9978	C	ALA	C	893	13.458	95.759	42.985	1.00	61.38	C
ATOM	9979	O	ALA	C	893	13.635	96.791	42.330	1.00	61.38	C
ATOM	9980	N	GLY	C	894	13.278	94.567	42.434	1.00	25.17	C
ATOM	9981	CA	GLY	C	894	13.289	94.396	41.002	1.00	25.17	C
ATOM	9982	C	GLY	C	894	13.146	92.922	40.706	1.00	25.17	C
ATOM	9983	O	GLY	C	894	12.765	92.526	39.612	1.00	25.17	C
ATOM	9984	N	TYR	C	895	13.484	92.092	41.679	1.00	33.29	C
ATOM	9985	CA	TYR	C	895	13.336	90.658	41.493	1.00	33.29	C
ATOM	9986	CB	TYR	C	895	13.982	89.895	42.654	1.00	53.00	C
ATOM	9987	CG	TYR	C	895	13.958	88.386	42.546	1.00	53.00	C
ATOM	9988	CD1	TYR	C	895	14.226	87.743	41.342	1.00	53.00	C
ATOM	9989	CE1	TYR	C	895	14.276	86.336	41.262	1.00	53.00	C
ATOM	9990	CD2	TYR	C	895	13.732	87.596	43.675	1.00	53.00	C
ATOM	9991	CE2	TYR	C	895	13.779	86.191	43.617	1.00	53.00	C
ATOM	9992	CZ	TYR	C	895	14.052	85.561	42.408	1.00	53.00	C
ATOM	9993	OH	TYR	C	895	14.109	84.172	42.349	1.00	53.00	C
ATOM	9994	C	TYR	C	895	11.830	90.532	41.542	1.00	33.29	C
ATOM	9995	O	TYR	C	895	11.190	90.167	40.558	1.00	33.29	C
ATOM	9996	N	PHE	C	896	11.259	90.905	42.681	1.00	57.33	C
ATOM	9997	CA	PHE	C	896	9.822	90.831	42.866	1.00	57.33	C
ATOM	9998	CB	PHE	C	896	9.481	91.161	44.313	1.00	57.92	C
ATOM	9999	CG	PHE	C	896	10.191	90.289	45.306	1.00	57.92	C
ATOM	10000	CD1	PHE	C	896	11.390	90.696	45.873	1.00	57.92	C
ATOM	10001	CD2	PHE	C	896	9.665	89.050	45.662	1.00	57.92	C
ATOM	10002	CE1	PHE	C	896	12.057	89.882	46.785	1.00	57.92	C
ATOM	10003	CE2	PHE	C	896	10.318	88.226	46.570	1.00	57.92	C
ATOM	10004	CZ	PHE	C	896	11.517	88.641	47.135	1.00	57.92	C
ATOM	10005	C	PHE	C	896	9.025	91.723	41.915	1.00	57.33	C
ATOM	10006	O	PHE	C	896	7.803	91.599	41.825	1.00	57.33	C
ATOM	10007	N	LEU	C	897	9.709	92.615	41.203	1.00	54.76	C
ATOM	10008	CA	LEU	C	897	9.026	93.489	40.253	1.00	54.76	C
ATOM	10009	CB	LEU	C	897	9.285	94.961	40.580	1.00	52.32	C
ATOM	10010	CG	LEU	C	897	8.561	95.498	41.812	1.00	52.32	C
ATOM	10011	CD1	LEU	C	897	9.077	94.773	43.033	1.00	52.32	C
ATOM	10012	CD2	LEU	C	897	8.780	96.996	41.951	1.00	52.32	C
ATOM	10013	C	LEU	C	897	9.437	93.210	38.808	1.00	54.76	C
ATOM	10014	O	LEU	C	897	8.915	93.821	37.868	1.00	54.76	C
ATOM	10015	N	GLY	C	898	10.358	92.272	38.620	1.00	100.02	C
ATOM	10016	CA	GLY	C	898	10.800	91.973	37.274	1.00	100.02	C
ATOM	10017	C	GLY	C	898	11.122	93.283	36.588	1.00	100.02	C
ATOM	10018	O	GLY	C	898	10.993	93.410	35.370	1.00	100.02	C
ATOM	10019	N	GLN	C	899	11.522	94.269	37.389	1.00	60.70	C
ATOM	10020	CA	GLN	C	899	11.874	95.584	36.879	1.00	60.70	C
ATOM	10021	CB	GLN	C	899	11.585	96.674	37.912	1.00	98.42	C
ATOM	10022	CG	GLN	C	899	10.129	96.925	38.210	1.00	98.42	C
ATOM	10023	CD	GLN	C	899	9.872	98.365	38.620	1.00	98.42	C
ATOM	10024	OE1	GLN	C	899	9.825	99.262	37.777	1.00	98.42	C
ATOM	10025	NE2	GLN	C	899	9.717	98.596	39.917	1.00	98.42	C
ATOM	10026	C	GLN	C	899	13.347	95.652	36.502	1.00	60.70	C
ATOM	10027	O	GLN	C	899	14.216	95.137	37.214	1.00	60.70	C
ATOM	10028	N	ARG	C	900	13.609	96.289	35.367	1.00	66.63	C
ATOM	10029	CA	ARG	C	900	14.961	96.471	34.861	1.00	66.63	C
ATOM	10030	CB	ARG	C	900	15.017	96.079	33.387	1.00	100.07	C
ATOM	10031	CG	ARG	C	900	14.205	94.835	33.049	1.00	100.07	C
ATOM	10032	CD	ARG	C	900	14.849	93.561	33.574	1.00	100.07	C
ATOM	10033	NE	ARG	C	900	13.891	92.457	33.624	1.00	100.07	C
ATOM	10034	CZ	ARG	C	900	13.227	91.980	32.574	1.00	100.07	C
ATOM	10035	NH1	ARG	C	900	13.411	92.504	31.368	1.00	100.07	C
ATOM	10036	NH2	ARG	C	900	12.366	90.982	32.731	1.00	100.07	C
ATOM	10037	C	ARG	C	900	15.194	97.968	35.019	1.00	66.63	C
ATOM	10038	O	ARG	C	900	14.322	98.763	34.675	1.00	66.63	C
ATOM	10039	N	TYR	C	901	16.349	98.366	35.534	1.00	35.63	C
ATOM	10040	CA	TYR	C	901	16.576	99.785	35.734	1.00	35.63	C
ATOM	10041	CB	TYR	C	901	16.743	100.077	37.215	1.00	71.06	C
ATOM	10042	CG	TYR	C	901	15.606	99.585	38.064	1.00	71.06	C

ATOM	10043	CD1	TYR	C	901	15.321	98.229	38.159	1.00	71.06	
ATOM	10044	CE1	TYR	C	901	14.298	97.767	38.982	1.00	71.06	
ATOM	10045	CD2	TYR	C	901	14.833	100.473	38.809	1.00	71.06	
ATOM	10046	CE2	TYR	C	901	13.807	100.020	39.632	1.00	71.06	
ATOM	10047	CZ	TYR	C	901	13.548	98.668	39.716	1.00	71.06	
ATOM	10048	OH	TYR	C	901	12.559	98.209	40.545	1.00	71.06	
ATOM	10049	C	TYR	C	901	17.736	100.420	35.003	1.00	35.63	
ATOM	10050	O	TYR	C	901	18.665	99.759	34.546	1.00	35.63	
ATOM	10051	N	ILE	C	902	17.668	101.736	34.913	1.00	63.08	
ATOM	10052	CA	ILE	C	902	18.717	102.496	34.286	1.00	63.08	
ATOM	10053	CB	ILE	C	902	18.319	102.961	32.901	1.00	46.56	
ATOM	10054	CG2	ILE	C	902	19.411	103.828	32.313	1.00	46.56	
ATOM	10055	CG1	ILE	C	902	18.090	101.747	32.012	1.00	46.56	
ATOM	10056	CD	ILE	C	902	17.913	102.092	30.539	1.00	46.56	
ATOM	10057	C	ILE	C	902	18.979	103.700	35.167	1.00	63.08	
ATOM	10058	O	ILE	C	902	18.351	104.751	35.011	1.00	63.08	
ATOM	10059	N	SER	C	903	19.893	103.516	36.118	1.00	61.88	
ATOM	10060	CA	SER	C	903	20.295	104.558	37.057	1.00	61.88	
ATOM	10061	CB	SER	C	903	20.390	103.992	38.474	1.00	76.79	
ATOM	10062	OG	SER	C	903	21.504	103.133	38.631	1.00	76.79	
ATOM	10063	C	SER	C	903	21.664	105.021	36.604	1.00	61.88	
ATOM	10064	O	SER	C	903	22.676	104.654	37.186	1.00	61.88	
ATOM	10065	N	PRO	C	904	21.709	105.843	35.553	1.00	11.83	
ATOM	10066	CD	PRO	C	904	20.609	106.624	34.970	1.00	47.87	
ATOM	10067	CA	PRO	C	904	22.990	106.324	35.050	1.00	11.83	
ATOM	10068	CB	PRO	C	904	22.582	107.471	34.123	1.00	47.87	
ATOM	10069	CG	PRO	C	904	21.282	107.924	34.702	1.00	47.87	
ATOM	10070	C	PRO	C	904	24.032	106.743	36.090	1.00	11.83	
ATOM	10071	O	PRO	C	904	23.742	106.859	37.285	1.00	11.83	
ATOM	10072	N	VAL	C	905	25.251	106.951	35.592	1.00	12.06	
ATOM	10073	CA	VAL	C	905	26.419	107.381	36.354	1.00	12.06	
ATOM	10074	CB	VAL	C	905	27.656	107.246	35.487	1.00	25.52	
ATOM	10075	CG1	VAL	C	905	28.740	108.164	35.972	1.00	25.52	
ATOM	10076	CG2	VAL	C	905	28.118	105.832	35.509	1.00	25.52	
ATOM	10077	C	VAL	C	905	26.336	108.841	36.820	1.00	12.06	
ATOM	10078	O	VAL	C	905	26.450	109.768	36.004	1.00	12.06	
ATOM	10079	N	PHE	C	906	26.147	109.037	38.123	1.00	53.53	
ATOM	10080	CA	PHE	C	906	26.060	110.375	38.708	1.00	53.53	
ATOM	10081	CB	PHE	C	906	27.130	111.287	38.109	1.00	22.89	
ATOM	10082	CG	PHE	C	906	28.524	110.944	38.531	1.00	22.89	
ATOM	10083										

ATOM	10127	CG	PRO	C	912	15.632	108.940	48.564	1.00	32.33	C
ATOM	10128	C	PRO	C	912	14.533	106.342	48.093	1.00	69.29	C
ATOM	10129	O	PRO	C	912	13.562	105.606	48.251	1.00	69.29	C
ATOM	10130	N	GLU	C	913	14.905	106.826	46.914	1.00	66.75	C
ATOM	10131	CA	GLU	C	913	14.185	106.530	45.687	1.00	66.75	C
ATOM	10132	CB	GLU	C	913	14.948	107.078	44.484	1.00	51.23	C
ATOM	10133	CG	GLU	C	913	14.042	107.683	43.441	1.00	51.23	C
ATOM	10134	CD	GLU	C	913	14.636	108.931	42.818	1.00	51.23	C
ATOM	10135	OE1	GLU	C	913	15.610	108.801	42.044	1.00	51.23	C
ATOM	10136	OE2	GLU	C	913	14.129	110.041	43.111	1.00	51.23	C
ATOM	10137	C	GLU	C	913	14.079	105.033	45.595	1.00	66.75	C
ATOM	10138	O	GLU	C	913	13.136	104.494	45.022	1.00	66.75	C
ATOM	10139	N	ILE	C	914	15.072	104.376	46.181	1.00	47.22	C
ATOM	10140	CA	ILE	C	914	15.142	102.929	46.215	1.00	47.22	C
ATOM	10141	CB	ILE	C	914	16.556	102.490	46.592	1.00	36.83	C
ATOM	10142	CG2	ILE	C	914	16.545	101.059	47.104	1.00	36.83	C
ATOM	10143	CG1	ILE	C	914	17.474	102.678	45.381	1.00	36.83	C
ATOM	10144	CD	ILE	C	914	18.925	102.965	45.746	1.00	36.83	C
ATOM	10145	C	ILE	C	914	14.137	102.424	47.238	1.00	47.22	C
ATOM	10146	O	ILE	C	914	13.233	101.657	46.906	1.00	47.22	C
ATOM	10147	N	LYS	C	915	14.293	102.870	48.480	1.00	83.17	C
ATOM	10148	CA	LYS	C	915	13.383	102.480	49.547	1.00	83.17	C
ATOM	10149	CB	LYS	C	915	13.551	103.410	50.745	1.00	42.61	C
ATOM	10150	CG	LYS	C	915	14.938	103.374	51.372	1.00	42.61	C
ATOM	10151	CD	LYS	C	915	15.264	102.017	52.002	1.00	42.61	C
ATOM	10152	CE	LYS	C	915	16.398	102.149	53.021	1.00	42.61	C
ATOM	10153	NZ	LYS	C	915	17.566	102.917	52.482	1.00	42.61	C
ATOM	10154	C	LYS	C	915	11.952	102.560	49.025	1.00	83.17	C
ATOM	10155	O	LYS	C	915	11.190	101.611	49.153	1.00	83.17	C
ATOM	10156	N	GLU	C	916	11.593	103.701	48.439	1.00	47.84	C
ATOM	10157	CA	GLU	C	916	10.259	103.886	47.871	1.00	47.84	C
ATOM	10158	CB	GLU	C	916	10.201	105.195	47.064	1.00	100.07	C
ATOM	10159	CG	GLU	C	916	9.106	105.238	45.991	1.00	100.07	C
ATOM	10160	CD	GLU	C	916	9.412	106.226	44.863	1.00	100.07	C
ATOM	10161	OE1	GLU	C	916	10.559	106.227	44.360	1.00	100.07	C
ATOM	10162	OE2	GLU	C	916	8.505	106.990	44.465	1.00	100.07	C
ATOM	10163	C	GLU	C	916	10.059	102.703	46.937	1.00	47.84	C
ATOM	10164	O	GLU	C	916	9.176	101.861	47.122	1.00	47.84	C
ATOM	10165	N	LEU	C	917	10.934	102.649	45.945	1.00	81.59	C
ATOM	10166	CA	LEU	C	917	10.925	101.618	44.933	1.00	81.59	C
ATOM	10167	CB	LEU	C	917	12.010	101.918	43.924	1.00	30.02	C
ATOM	10168	CG	LEU	C	917	11.620	101.641	42.486	1.00	30.02	C
ATOM	10169	CD1	LEU	C	917	12.712	102.187	41.575	1.00	30.02	C
ATOM	10170	CD2	LEU	C	917	11.397	100.153	42.281	1.00	30.02	C
ATOM	10171	C	LEU	C	917	11.183	100.262	45.547	1.00	81.59	C
ATOM	10172	O	LEU	C	917	11.348	99.269	44.845	1.00	81.59	C
ATOM	10173	N	LEU	C	918	11.215	100.216	46.866	1.00	38.74	C
ATOM	10174	CA	LEU	C	918	11.487	98.969	47.536	1.00	38.74	C
ATOM	10175	CB	LEU	C	918	12.849	99.064	48.216	1.00	71.95	C
ATOM	10176	CG	LEU	C	918	13.477	97.784	48.746	1.00	71.95	C
ATOM	10177	CD1	LEU	C	918	14.882	97.678	48.198	1.00	71.95	C
ATOM	10178	CD2	LEU	C	918	13.476	97.789	50.269	1.00	71.95	C
ATOM	10179	C	LEU	C	918	10.397	98.707	48.548	1.00	38.74	C
ATOM	10180	O	LEU	C	918	10.032	97.556	48.795	1.00	38.74	C
ATOM	10181	N	ALA	C	919	9.888	99.785	49.142	1.00	24.80	C
ATOM	10182	CA	ALA	C	919	8.825	99.676	50.132	1.00	24.80	C
ATOM	10183	CB	ALA	C	919	8.133	101.017	50.319	1.00	74.22	C
ATOM	10184	C	ALA	C	919	7.908	98.699	49.455	1.00	24.80	C
ATOM	10185	O	ALA	C	919	7.547	97.668	50.024	1.00	24.80	C
ATOM	10186	N	GLU	C	920	7.590	99.024	48.203	1.00	30.78	C
ATOM	10187	CA	GLU	C	920	6.750	98.175	47.379	1.00	30.78	C
ATOM	10188	CB	GLU	C	920	6.616	98.747	45.964	1.00	100.07	C
ATOM	10189	CG	GLU	C	920	5.893	100.081	45.889	1.00	100.07	C
ATOM	10190	CD	GLU	C	920	5.895	100.672	44.490	1.00	100.07	C
ATOM	10191	OE1	GLU	C	920	5.373	100.015	43.563	1.00	100.07	C
ATOM	10192	OE2	GLU	C	920	6.419	101.796	44.322	1.00	100.07	C
ATOM	10193	C	GLU	C	920	7.476	96.843	47.328	1.00	30.78	C
ATOM	10194	O	GLU	C	920	8.187	96.488	48.271	1.00	30.78	C
ATOM	10195	N	ALA	C	921	7.321	96.113	46.229	1.00	33.07	C
ATOM	10196	CA	ALA	C	921	7.978	94.821	46.118	1.00	33.07	C
ATOM	10197	CB	ALA	C	921	9.469	95.013	46.090	1.00	35.08	C
ATOM	10198	C	ALA	C	921	7.567	94.069	47.370	1.00	33.07	C
ATOM	10199	O	ALA	C	921	6.745	93.156	47.323	1.00	33.07	C
ATOM	10200	N	PHE	C	922	8.148	94.468	48.493	1.00	42.33	C
ATOM	10201	CA	PHE	C	922	7.808	93.876	49.762	1.00	42.33	C
ATOM	10202	CB	PHE	C	922	8.342	94.716	50.907	1.00	22.01	C
ATOM	10203	CG	PHE	C	922	7.877	94.245	52.260	1.00	22.01	C
ATOM	10204	CD1	PHE	C	922	8.712	93.471	53.068	1.00	22.01	C
ATOM	10205	CD2	PHE	C	922	6.604	94.590	52.734	1.00	22.01	C
ATOM	10206	CE1	PHE	C	922	8.291	93.053	54.324	1.00	22.01	C
ATOM	10207	CE2	PHE	C	922	6.176	94.179	53.981	1.00	22.01	C
ATOM	10208	CZ	PHE	C	922	7.017	93.412	54.782	1.00	22.01	C
ATOM	10209	C	PHE	C	922	6.292	93.851	49.852	1.00	42.33	C
ATOM	10210	O	PHE	C	922	5.701	92.806	50.119	1.00	42.33	C

ATOM	10211	N	ASN	C	923	5.667	95.007	49.626	1.00	62.06	C
ATOM	10212	CA	ASN	C	923	4.212	95.118	49.688	1.00	62.06	C
ATOM	10213	CB	ASN	C	923	3.742	96.518	49.281	1.00	89.21	C
ATOM	10214	CG	ASN	C	923	3.670	97.473	50.463	1.00	89.21	C
ATOM	10215	OD1	ASN	C	923	3.197	97.110	51.544	1.00	89.21	C
ATOM	10216	ND2	ASN	C	923	4.125	98.702	50.260	1.00	89.21	C
ATOM	10217	C	ASN	C	923	3.506	94.078	48.841	1.00	62.06	C
ATOM	10218	O	ASN	C	923	2.294	94.129	48.662	1.00	62.06	C
ATOM	10219	N	LEU	C	924	4.281	93.146	48.303	1.00	47.73	C
ATOM	10220	CA	LEU	C	924	3.742	92.057	47.514	1.00	47.73	C
ATOM	10221	CB	LEU	C	924	3.881	92.316	46.019	1.00	23.71	C
ATOM	10222	CG	LEU	C	924	4.708	93.489	45.513	1.00	23.71	C
ATOM	10223	CD1	LEU	C	924	4.658	93.419	43.992	1.00	23.71	C
ATOM	10224	CD2	LEU	C	924	4.178	94.850	46.032	1.00	23.71	C
ATOM	10225	C	LEU	C	924	4.517	90.818	47.886	1.00	47.73	C
ATOM	10226	O	LEU	C	924	3.945	89.739	48.032	1.00	47.73	C
ATOM	10227	N	TYR	C	925	5.828	90.977	48.038	1.00	29.69	C
ATOM	10228	CA	TYR	C	925	6.668	89.857	48.416	1.00	29.69	C
ATOM	10229	CB	TYR	C	925	8.094	90.305	48.698	1.00	48.02	C
ATOM	10230	CG	TYR	C	925	8.743	89.505	49.804	1.00	48.02	C
ATOM	10231	CD1	TYR	C	925	9.045	88.150	49.640	1.00	48.02	C
ATOM	10232	CE1	TYR	C	925	9.594	87.401	50.683	1.00	48.02	C
ATOM	10233	CD2	TYR	C	925	9.010	90.089	51.036	1.00	48.02	C
ATOM	10234	CE2	TYR	C	925	9.554	89.351	52.075	1.00	48.02	C
ATOM	10235	CZ	TYR	C	925	9.843	88.013	51.896	1.00	48.02	C
ATOM	10236	OH	TYR	C	925	10.378	87.305	52.941	1.00	48.02	C
ATOM	10237	C	TYR	C	925	6.056	89.350	49.689	1.00	29.69	C
ATOM	10238	O	TYR	C	925	6.118	88.165	49.998	1.00	29.69	C
ATOM	10239	N	PHE	C	926	5.469	90.269	50.436	1.00	98.59	C
ATOM	10240	CA	PHE	C	926	4.832	89.893	51.668	1.00	98.59	C
ATOM	10241	CB	PHE	C	926	5.189	90.854	52.787	1.00	51.90	C
ATOM	10242	CG	PHE	C	926	4.920	90.292	54.131	1.00	51.90	C
ATOM	10243	CD1	PHE	C	926	5.135	88.937	54.371	1.00	51.90	C
ATOM	10244	CD2	PHE	C	926	4.475	91.091	55.160	1.00	51.90	C
ATOM	10245	CE1	PHE	C	926	4.913	88.382	55.620	1.00	51.90	C
ATOM	10246	CE2	PHE	C	926	4.249	90.547	56.423	1.00	51.90	C
ATOM	10247	CZ	PHE	C	926	4.470	89.186	56.652	1.00	51.90	C
ATOM	10248	C	PHE	C	926	3.333	89.847	51.478	1.00	98.59	C
ATOM	10249	O	PHE	C	926	2.590	89.526	52.404	1.00	98.59	C
ATOM	10250	N	GLY	C	927	2.893	90.184	50.271	1.00	98.95	C
ATOM	10251	CA	GLY	C							

ATOM	10295	O	GLU	C	932	-1.697	80.360	51.344	1.00	60.13	C
ATOM	10296	N	GLY	C	933	-1.364	82.171	52.660	1.00	100.07	C
ATOM	10297	CA	GLY	C	933	-1.760	81.487	53.877	1.00	100.07	C
ATOM	10298	C	GLY	C	933	-0.697	81.361	54.957	1.00	100.07	C
ATOM	10299	O	GLY	C	933	-0.694	80.383	55.705	1.00	100.07	C
ATOM	10300	N	PHE	C	934	0.208	82.331	55.055	1.00	85.74	C
ATOM	10301	CA	PHE	C	934	1.252	82.269	56.077	1.00	85.74	C
ATOM	10302	CB	PHE	C	934	2.532	81.644	55.520	1.00	99.77	C
ATOM	10303	CG	PHE	C	934	2.350	80.262	54.960	1.00	99.77	C
ATOM	10304	CD1	PHE	C	934	2.053	80.076	53.610	1.00	99.77	C
ATOM	10305	CD2	PHE	C	934	2.507	79.144	55.772	1.00	99.77	C
ATOM	10306	CE1	PHE	C	934	1.922	78.793	53.072	1.00	99.77	C
ATOM	10307	CE2	PHE	C	934	2.377	77.855	55.244	1.00	99.77	C
ATOM	10308	CZ	PHE	C	934	2.085	77.681	53.890	1.00	99.77	C
ATOM	10309	C	PHE	C	934	1.602	83.626	56.671	1.00	85.74	C
ATOM	10310	O	PHE	C	934	1.214	84.675	56.158	1.00	85.74	C
ATOM	10311	N	GLY	C	935	2.351	83.589	57.763	1.00	45.71	C
ATOM	10312	CA	GLY	C	935	2.755	84.816	58.409	1.00	45.71	C
ATOM	10313	C	GLY	C	935	3.878	84.583	59.401	1.00	45.71	C
ATOM	10314	O	GLY	C	935	3.860	83.591	60.128	1.00	45.71	C
ATOM	10315	N	VAL	C	936	4.856	85.492	59.408	1.00	13.93	C
ATOM	10316	CA	VAL	C	936	6.001	85.448	60.306	1.00	13.93	C
ATOM	10317	CB	VAL	C	936	6.082	86.757	61.074	1.00	41.62	C
ATOM	10318	CG1	VAL	C	936	7.195	86.695	62.124	1.00	41.62	C
ATOM	10319	CG2	VAL	C	936	6.263	87.900	60.080	1.00	41.62	C
ATOM	10320	C	VAL	C	936	5.983	84.307	61.315	1.00	13.93	C
ATOM	10321	O	VAL	C	936	5.042	84.161	62.098	1.00	13.93	C
ATOM	10322	N	ASP	C	937	7.033	83.500	61.308	1.00	25.57	C
ATOM	10323	CA	ASP	C	937	7.113	82.385	62.241	1.00	25.57	C
ATOM	10324	CB	ASP	C	937	7.294	81.071	61.479	1.00	50.57	C
ATOM	10325	CG	ASP	C	937	8.599	81.012	60.706	1.00	50.57	C
ATOM	10326	OD1	ASP	C	937	9.643	80.752	61.345	1.00	50.57	C
ATOM	10327	OD2	ASP	C	937	8.575	81.228	59.468	1.00	50.57	C
ATOM	10328	C	ASP	C	937	8.269	82.614	63.192	1.00	25.57	C
ATOM	10329	O	ASP	C	937	9.162	83.418	62.920	1.00	25.57	C
ATOM	10330	N	LYS	C	938	8.246	81.911	64.312	1.00	54.70	C
ATOM	10331	CA	LYS	C	938	9.287	82.076	65.307	1.00	54.70	C
ATOM	10332	CB	LYS	C	938	9.449	80.790	66.123	1.00	100.07	C
ATOM	10333	CG	LYS	C	938	8.154	80.293	66.769	1.00	100.07	C
ATOM	10334	CD	LYS	C	938	7.598	81.261	67.820	1.00	100.07	C
ATOM	10335	CE	LYS	C	938	8.309	81.127	69.166	1.00	100.07	C
ATOM	10336	NZ	LYS	C	938	7.648	81.906	70.267	1.00	100.07	C
ATOM	10337	C	LYS	C	938	10.613	82.463	64.654	1.00	54.70	C
ATOM	10338	O	LYS	C	938	11.248	83.443	65.044	1.00	54.70	C
ATOM	10339	N	ARG	C	939	11.008	81.721	63.627	1.00	52.19	C
ATOM	10340	CA	ARG	C	939	12.279	81.999	62.973	1.00	52.19	C
ATOM	10341	CB	ARG	C	939	12.419	81.167	61.698	1.00	98.27	C
ATOM	10342	CG	ARG	C	939	12.252	79.675	61.940	1.00	98.27	C
ATOM	10343	CD	ARG	C	939	13.016	79.198	63.182	1.00	98.27	C
ATOM	10344	NE	ARG	C	939	12.664	79.981	64.372	1.00	98.27	C
ATOM	10345	CZ	ARG	C	939	12.968	79.671	65.631	1.00	98.27	C
ATOM	10346	NH1	ARG	C	939	13.644	78.561	65.917	1.00	98.27	C
ATOM	10347	NH2	ARG	C	939	12.605	80.493	66.611	1.00	98.27	C
ATOM	10348	C	ARG	C	939	12.487	83.472	62.706	1.00	52.19	C
ATOM	10349	O	ARG	C	939	13.542	84.013	63.013	1.00	52.19	C
ATOM	10350	N	GLU	C	940	11.495	84.137	62.142	1.00	22.52	C
ATOM	10351	CA	GLU	C	940	11.662	85.551	61.922	1.00	22.52	C
ATOM	10352	CB	GLU	C	940	10.625	86.067	60.926	1.00	50.73	C
ATOM	10353	CG	GLU	C	940	10.768	85.405	59.559	1.00	50.73	C
ATOM	10354	CD	GLU	C	940	9.697	85.801	58.557	1.00	50.73	C
ATOM	10355	OE1	GLU	C	940	9.648	86.984	58.162	1.00	50.73	C
ATOM	10356	OE2	GLU	C	940	8.907	84.921	58.156	1.00	50.73	C
ATOM	10357	C	GLU	C	940	11.421	86.069	63.323	1.00	22.52	C
ATOM	10358	O	GLU	C	940	12.299	85.953	64.184	1.00	22.52	C
ATOM	10359	N	LYS	C	941	10.219	86.592	63.565	1.00	61.51	C
ATOM	10360	CA	LYS	C	941	9.828	87.127	64.876	1.00	61.51	C
ATOM	10361	CB	LYS	C	941	8.385	86.705	65.206	1.00	100.07	C
ATOM	10362	CG	LYS	C	941	7.926	87.054	66.626	1.00	100.07	C
ATOM	10363	CD	LYS	C	941	6.502	86.574	66.918	1.00	100.07	C
ATOM	10364	CE	LYS	C	941	6.024	87.098	68.277	1.00	100.07	C
ATOM	10365	NZ	LYS	C	941	4.574	86.854	68.560	1.00	100.07	C
ATOM	10366	C	LYS	C	941	10.748	86.670	65.999	1.00	61.51	C
ATOM	10367	O	LYS	C	941	11.813	87.245	66.224	1.00	61.51	C
ATOM	10368	N	GLU	C	942	10.317	85.618	66.685	1.00	80.51	C
ATOM	10369	CA	GLU	C	942	11.052	85.043	67.798	1.00	80.51	C
ATOM	10370	CB	GLU	C	942	10.944	83.512	67.767	1.00	100.07	C
ATOM	10371	CG	GLU	C	942	11.971	82.771	68.626	1.00	100.07	C
ATOM	10372	CD	GLU	C	942	12.028	83.277	70.062	1.00	100.07	C
ATOM	10373	OE1	GLU	C	942	10.994	83.219	70.769	1.00	100.07	C
ATOM	10374	OE2	GLU	C	942	13.116	83.733	70.482	1.00	100.07	C
ATOM	10375	C	GLU	C	942	12.514	85.459	67.854	1.00	80.51	C
ATOM	10376	O	GLU	C	942	12.908	86.272	68.686	1.00	80.51	C
ATOM	10377	N	VAL	C	943	13.328	84.925	66.963	1.00	48.32	C
ATOM	10378	CA	VAL	C	943	14.725	85.277	67.030	1.00	48.32	C

ATOM	10379	CB	VAL	C	943	15.567	84.348	66.134	1.00100.07	C
ATOM	10380	CG1	VAL	C	943	17.035	84.407	66.560	1.00100.07	C
ATOM	10381	CG2	VAL	C	943	15.039	82.921	66.233	1.00100.07	C
ATOM	10382	C	VAL	C	943	14.976	86.737	66.670	1.00 48.32	C
ATOM	10383	O	VAL	C	943	14.757	87.628	67.497	1.00 48.32	C
ATOM	10384	N	LEU	C	944	15.422	86.969	65.436	1.00 40.93	C
ATOM	10385	CA	LEU	C	944	15.757	88.302	64.932	1.00 40.93	C
ATOM	10386	CB	LEU	C	944	15.659	88.329	63.411	1.00 60.07	C
ATOM	10387	CG	LEU	C	944	16.688	87.441	62.715	1.00 60.07	C
ATOM	10388	CD1	LEU	C	944	16.246	85.985	62.777	1.00 60.07	C
ATOM	10389	CD2	LEU	C	944	16.842	87.890	61.274	1.00 60.07	C
ATOM	10390	C	LEU	C	944	14.957	89.454	65.512	1.00 40.93	C
ATOM	10391	O	LEU	C	944	15.479	90.230	66.310	1.00 40.93	C
ATOM	10392	N	ALA	C	945	13.704	89.572	65.091	1.00 38.12	C
ATOM	10393	CA	ALA	C	945	12.836	90.625	65.584	1.00 38.12	C
ATOM	10394	CB	ALA	C	945	11.407	90.114	65.671	1.00100.07	C
ATOM	10395	C	ALA	C	945	13.320	91.096	66.958	1.00 38.12	C
ATOM	10396	O	ALA	C	945	13.366	92.289	67.228	1.00 38.12	C
ATOM	10397	N	ARG	C	946	13.661	90.160	67.836	1.00 48.91	C
ATOM	10398	CA	ARG	C	946	14.181	90.556	69.131	1.00 48.91	C
ATOM	10399	CB	ARG	C	946	14.446	89.335	70.025	1.00100.07	C
ATOM	10400	CG	ARG	C	946	13.193	88.586	70.477	1.00100.07	C
ATOM	10401	CD	ARG	C	946	13.519	87.373	71.369	1.00100.07	C
ATOM	10402	NE	ARG	C	946	12.321	86.590	71.697	1.00100.07	C
ATOM	10403	CZ	ARG	C	946	12.314	85.492	72.451	1.00100.07	C
ATOM	10404	NH1	ARG	C	946	13.445	85.029	72.970	1.00100.07	C
ATOM	10405	NH2	ARG	C	946	11.173	84.852	72.687	1.00100.07	C
ATOM	10406	C	ARG	C	946	15.498	91.207	68.736	1.00 48.91	C
ATOM	10407	O	ARG	C	946	15.535	92.375	68.347	1.00 48.91	C
ATOM	10408	N	ALA	C	947	16.566	90.416	68.779	1.00 34.81	C
ATOM	10409	CA	ALA	C	947	17.919	90.862	68.440	1.00 34.81	C
ATOM	10410	CB	ALA	C	947	18.625	89.778	67.616	1.00 33.10	C
ATOM	10411	C	ALA	C	947	18.065	92.220	67.749	1.00 34.81	C
ATOM	10412	O	ALA	C	947	18.525	93.177	68.359	1.00 34.81	C
ATOM	10413	N	GLU	C	948	17.663	92.332	66.494	1.00 31.69	C
ATOM	10414	CA	GLU	C	948	17.858	93.602	65.823	1.00 31.69	C
ATOM	10415	CB	GLU	C	948	17.310	93.566	64.395	1.00100.07	C
ATOM	10416	CG	GLU	C	948	15.905	94.088	64.237	1.00100.07	C
ATOM	10417	CD	GLU	C	948	14.945	93.447	65.212	1.00100.07	C
ATOM	10418	OE1	GLU	C	948	15.056	92.225	65.428	1.00100.07	C
ATOM	10419	OE2	GLU	C	948	14.080	94.164	65.759	1.00100.07	C
ATOM	10420	C	GLU	C	948	17.326	94.834	66.551	1.00 31.69	C
ATOM	10421	O	GLU	C	948	18.046	95.827	66.661	1.00 31.69	C
ATOM	10422	N	LYS	C	949	16.098	94.803	67.066	1.00 68.91	C
ATOM	10423	CA	LYS	C	949	15.586	95.995	67.742	1.00 68.91	C
ATOM	10424	CB	LYS	C	949	14.186	95.773	68.332	1.00 46.24	C
ATOM	10425	CG	LYS	C	949	14.140	95.089	69.686	1.00 46.24	C
ATOM	10426	CD	LYS	C	949	12.816	95.354	70.398	1.00 46.24	C
ATOM	10427	CE	LYS	C	949	11.632	94.708	69.688	1.00 46.24	C
ATOM	10428	NZ	LYS	C	949	11.372	95.219	68.310	1.00 46.24	C
ATOM	10429	C	LYS	C	949	16.564	96.359	68.840	1.00 68.91	C
ATOM	10430	O	LYS	C	949	16.754	97.532	69.150	1.00 68.91	C
ATOM	10431	N	LEU	C	950	17.193	95.340	69.417	1.00 30.74	C
ATOM	10432	CA	LEU	C	950	18.179	95.549	70.458	1.00 30.74	C
ATOM	10433	CB	LEU	C	950	18.600	94.206	71.067	1.00 99.55	C
ATOM	10434	CG	LEU	C	950	17.569	93.391	71.869	1.00 99.55	C
ATOM	10435	CD1	LEU	C	950	16.345	93.102	71.026	1.00 99.55	C
ATOM	10436	CD2	LEU	C	950	18.194	92.080	72.340	1.00 99.55	C
ATOM	10437	C	LEU	C	950	19.359	96.211	69.756	1.00 30.74	C
ATOM	10438	O	LEU	C	950	20.496	95.767	69.868	1.00 30.74	C
ATOM	10439	N	GLY	C	951	19.068	97.275	69.016	1.00 56.95	C
ATOM	10440	CA	GLY	C	951	20.095	97.992	68.288	1.00 56.95	C
ATOM	10441	C	GLY	C	951	19.926	97.793	66.797	1.00 56.95	C
ATOM	10442	O	GLY	C	951	20.687	97.029	66.199	1.00 56.95	C
ATOM	10443	N	LEU	C	952	18.929	98.474	66.218	1.00 89.26	C
ATOM	10444	CA	LEU	C	952	18.592	98.417	64.786	1.00 89.26	C
ATOM	10445	CB	LEU	C	952	19.331	97.274	64.100	1.00 36.22	C
ATOM	10446	CG	LEU	C	952	18.842	96.852	62.717	1.00 36.22	C
ATOM	10447	CD1	LEU	C	952	18.763	98.082	61.807	1.00 36.22	C
ATOM	10448	CD2	LEU	C	952	19.790	95.785	62.145	1.00 36.22	C
ATOM	10449	C	LEU	C	952	17.088	98.227	64.576	1.00 89.26	C
ATOM	10450	O	LEU	C	952	16.434	97.588	65.395	1.00 89.26	C
ATOM	10451	N	VAL	C	953	16.551	98.771	63.478	1.00 34.55	C
ATOM	10452	CA	VAL	C	953	15.111	98.679	63.138	1.00 34.55	C
ATOM	10453	CB	VAL	C	953	14.627	97.220	63.000	1.00 40.33	C
ATOM	10454	CG1	VAL	C	953	14.110	96.691	64.342	1.00 40.33	C
ATOM	10455	CG2	VAL	C	953	13.513	97.162	61.987	1.00 40.33	C
ATOM	10456	C	VAL	C	953	14.119	99.349	64.109	1.00 34.55	C
ATOM	10457	O	VAL	C	953	14.311	99.343	65.335	1.00 34.55	C
ATOM	10458	N	SER	C	954	13.039	99.895	63.556	1.00 75.53	C
ATOM	10459	CA	SER	C	954	12.016	100.559	64.363	1.00 75.53	C
ATOM	10460	CB	SER	C	954	10.830	100.943	63.474	1.00 67.76	C
ATOM	10461	OG	SER	C	954	11.212	101.907	62.504	1.00 67.76	C
ATOM	10462	C	SER	C	954	11.548	99.653	65.507	1.00 75.53	C

ATOM	10463	O	SER	C	954	10.861	98.663	65.270	1.00	75.53	C
ATOM	10464	N	PRO	C	955	11.909	99.989	66.764	1.00	69.46	C
ATOM	10465	CD	PRO	C	955	12.816	101.089	67.139	1.00	94.74	C
ATOM	10466	CA	PRO	C	955	11.541	99.212	67.957	1.00	69.46	C
ATOM	10467	CB	PRO	C	955	12.649	99.558	68.936	1.00	94.74	C
ATOM	10468	CG	PRO	C	955	12.816	101.013	68.672	1.00	94.74	C
ATOM	10469	C	PRO	C	955	10.184	99.525	68.550	1.00	69.46	C
ATOM	10470	O	PRO	C	955	9.579	100.547	68.247	1.00	69.46	C
ATOM	10471	N	GLY	C	956	9.714	98.630	69.409	1.00	71.64	C
ATOM	10472	CA	GLY	C	956	8.438	98.847	70.055	1.00	71.64	C
ATOM	10473	C	GLY	C	956	7.165	98.338	69.398	1.00	71.64	C
ATOM	10474	O	GLY	C	956	6.475	97.512	69.992	1.00	71.64	C
ATOM	10475	N	LYS	C	957	6.840	98.791	68.187	1.00	34.57	C
ATOM	10476	CA	LYS	C	957	5.583	98.353	67.590	1.00	34.57	C
ATOM	10477	CB	LYS	C	957	4.733	99.574	67.232	1.00	100.07	C
ATOM	10478	CG	LYS	C	957	3.255	99.242	66.987	1.00	100.07	C
ATOM	10479	CD	LYS	C	957	2.572	98.743	68.266	1.00	100.07	C
ATOM	10480	CE	LYS	C	957	1.092	98.432	68.044	1.00	100.07	C
ATOM	10481	NZ	LYS	C	957	0.391	98.021	69.301	1.00	100.07	C
ATOM	10482	C	LYS	C	957	5.516	97.371	66.418	1.00	34.57	C
ATOM	10483	O	LYS	C	957	5.900	97.677	65.279	1.00	34.57	C
ATOM	10484	N	SER	C	958	4.976	96.195	66.736	1.00	53.75	C
ATOM	10485	CA	SER	C	958	4.735	95.105	65.796	1.00	53.75	C
ATOM	10486	CB	SER	C	958	3.728	95.542	64.738	1.00	27.38	C
ATOM	10487	OG	SER	C	958	3.760	94.645	63.637	1.00	27.38	C
ATOM	10488	C	SER	C	958	5.874	94.427	65.070	1.00	53.75	C
ATOM	10489	O	SER	C	958	6.828	95.071	64.641	1.00	53.75	C
ATOM	10490	N	PRO	C	959	5.751	93.099	64.887	1.00	40.02	C
ATOM	10491	CD	PRO	C	959	4.633	92.332	65.465	1.00	84.92	C
ATOM	10492	CA	PRO	C	959	6.689	92.196	64.215	1.00	40.02	C
ATOM	10493	CB	PRO	C	959	6.268	90.833	64.732	1.00	84.92	C
ATOM	10494	CG	PRO	C	959	4.786	90.981	64.805	1.00	84.92	C
ATOM	10495	C	PRO	C	959	6.523	92.306	62.702	1.00	40.02	C
ATOM	10496	O	PRO	C	959	7.487	92.474	61.966	1.00	40.02	C
ATOM	10497	N	GLU	C	960	5.287	92.198	62.242	1.00	17.23	C
ATOM	10498	CA	GLU	C	960	5.022	92.321	60.828	1.00	17.23	C
ATOM	10499	CB	GLU	C	960	3.527	92.186	60.563	1.00	99.51	C
ATOM	10500	CG	GLU	C	960	3.123	92.591	59.159	1.00	99.51	C
ATOM	10501	CD	GLU	C	960	1.634	92.485	58.936	1.00	99.51	C
ATOM	10502	OE1	GLU	C	960	1.171	92.850	57.831	1.00	99.51	C
ATOM	10503	OE2	GLU	C	960						

ATOM	10547	OE2	GLU	C	965	11.896	101.411	59.763	1.00	100.07	C
ATOM	10548	C	GLU	C	965	12.359	97.597	57.894	1.00	61.72	C
ATOM	10549	O	GLU	C	965	13.142	98.300	57.252	1.00	61.72	C
ATOM	10550	N	LEU	C	966	12.651	96.353	58.269	1.00	45.84	C
ATOM	10551	CA	LEU	C	966	13.943	95.751	57.957	1.00	45.84	C
ATOM	10552	CB	LEU	C	966	14.109	94.427	58.709	1.00	8.60	C
ATOM	10553	CG	LEU	C	966	15.510	94.226	59.291	1.00	8.60	C
ATOM	10554	CD1	LEU	C	966	16.008	95.572	59.726	1.00	8.60	C
ATOM	10555	CD2	LEU	C	966	15.524	93.254	60.475	1.00	8.60	C
ATOM	10556	C	LEU	C	966	14.122	95.548	56.454	1.00	45.84	C
ATOM	10557	O	LEU	C	966	14.981	96.185	55.858	1.00	45.84	C
ATOM	10558	N	PHE	C	967	13.315	94.677	55.847	1.00	69.08	C
ATOM	10559	CA	PHE	C	967	13.369	94.412	54.404	1.00	69.08	C
ATOM	10560	CB	PHE	C	967	11.963	94.000	53.895	1.00	24.53	C
ATOM	10561	CG	PHE	C	967	11.933	93.483	52.460	1.00	24.53	C
ATOM	10562	CD1	PHE	C	967	12.185	92.145	52.177	1.00	24.53	C
ATOM	10563	CD2	PHE	C	967	11.678	94.349	51.392	1.00	24.53	C
ATOM	10564	CE1	PHE	C	967	12.186	91.686	50.858	1.00	24.53	C
ATOM	10565	CE2	PHE	C	967	11.680	93.890	50.080	1.00	24.53	C
ATOM	10566	CZ	PHE	C	967	11.935	92.560	49.815	1.00	24.53	C
ATOM	10567	C	PHE	C	967	13.871	95.664	53.657	1.00	69.08	C
ATOM	10568	O	PHE	C	967	14.595	95.545	52.670	1.00	69.08	C
ATOM	10569	N	ASP	C	968	13.491	96.855	54.128	1.00	38.84	C
ATOM	10570	CA	ASP	C	968	13.938	98.117	53.508	1.00	38.84	C
ATOM	10571	CB	ASP	C	968	13.864	99.275	54.503	1.00	91.58	C
ATOM	10572	CG	ASP	C	968	12.492	99.892	54.587	1.00	91.58	C
ATOM	10573	OD1	ASP	C	968	11.950	100.277	53.530	1.00	91.58	C
ATOM	10574	OD2	ASP	C	968	11.963	100.004	55.711	1.00	91.58	C
ATOM	10575	C	ASP	C	968	15.382	98.003	53.048	1.00	38.84	C
ATOM	10576	O	ASP	C	968	15.678	97.992	51.849	1.00	38.84	C
ATOM	10577	N	LEU	C	969	16.273	97.954	54.035	1.00	45.27	C
ATOM	10578	CA	LEU	C	969	17.696	97.799	53.805	1.00	45.27	C
ATOM	10579	CB	LEU	C	969	18.482	98.524	54.919	1.00	54.46	C
ATOM	10580	CG	LEU	C	969	18.235	98.367	56.439	1.00	54.46	C
ATOM	10581	CD1	LEU	C	969	19.381	99.039	57.216	1.00	54.46	C
ATOM	10582	CD2	LEU	C	969	16.895	98.968	56.852	1.00	54.46	C
ATOM	10583	C	LEU	C	969	17.993	96.278	53.755	1.00	45.27	C
ATOM	10584	O	LEU	C	969	17.916	95.671	52.689	1.00	45.27	C
ATOM	10585	N	GLY	C	970	18.306	95.659	54.892	1.00	36.39	C
ATOM	10586	CA	GLY	C	970	18.562	94.224	54.914	1.00	36.39	C
ATOM	10587	C	GLY	C	970	17.373	93.385	54.455	1.00	36.39	C
ATOM	10588	O	GLY	C	970	16.356	93.921	54.003	1.00	36.39	C
ATOM	10589	N	LYS	C	971	17.478	92.065	54.606	1.00	36.78	C
ATOM	10590	CA	LYS	C	971	16.418	91.164	54.150	1.00	36.78	C
ATOM	10591	CB	LYS	C	971	16.852	90.452	52.866	1.00	100.07	C
ATOM	10592	CG	LYS	C	971	15.954	89.274	52.468	1.00	100.07	C
ATOM	10593	CD	LYS	C	971	14.505	89.718	52.264	1.00	100.07	C
ATOM	10594	CE	LYS	C	971	13.604	88.591	51.750	1.00	100.07	C
ATOM	10595	NZ	LYS	C	971	13.814	88.244	50.305	1.00	100.07	C
ATOM	10596	C	LYS	C	971	15.898	90.102	55.090	1.00	36.78	C
ATOM	10597	O	LYS	C	971	16.662	89.448	55.809	1.00	36.78	C
ATOM	10598	N	VAL	C	972	14.579	89.919	54.997	1.00	72.35	C
ATOM	10599	CA	VAL	C	972	13.779	88.955	55.761	1.00	72.35	C
ATOM	10600	CB	VAL	C	972	12.639	88.342	54.881	1.00	55.95	C
ATOM	10601	CG1	VAL	C	972	11.804	87.360	55.691	1.00	55.95	C
ATOM	10602	CG2	VAL	C	972	11.755	89.448	54.333	1.00	55.95	C
ATOM	10603	C	VAL	C	972	14.556	87.812	56.387	1.00	72.35	C
ATOM	10604	O	VAL	C	972	14.689	86.734	55.817	1.00	72.35	C
ATOM	10605	N	VAL	C	973	15.061	88.072	57.578	1.00	22.24	C
ATOM	10606	CA	VAL	C	973	15.799	87.097	58.324	1.00	22.24	C
ATOM	10607	CB	VAL	C	973	14.835	86.115	58.976	1.00	51.82	C
ATOM	10608	CG1	VAL	C	973	15.610	85.033	59.708	1.00	51.82	C
ATOM	10609	CG2	VAL	C	973	13.925	86.859	59.935	1.00	51.82	C
ATOM	10610	C	VAL	C	973	16.868	86.305	57.589	1.00	22.24	C
ATOM	10611	O	VAL	C	973	18.028	86.319	58.006	1.00	22.24	C
ATOM	10612	N	LEU	C	974	16.491	85.632	56.504	1.00	37.73	C
ATOM	10613	CA	LEU	C	974	17.393	84.750	55.737	1.00	37.73	C
ATOM	10614	CB	LEU	C	974	18.761	85.383	55.473	1.00	19.58	C
ATOM	10615	CG	LEU	C	974	19.560	84.725	54.341	1.00	19.58	C
ATOM	10616	CD1	LEU	C	974	18.862	84.860	52.988	1.00	19.58	C
ATOM	10617	CD2	LEU	C	974	20.886	85.399	54.272	1.00	19.58	C
ATOM	10618	C	LEU	C	974	17.537	83.531	56.652	1.00	37.73	C
ATOM	10619	O	LEU	C	974	17.785	83.675	57.851	1.00	37.73	C
ATOM	10620	N	TYR	C	975	17.393	82.329	56.114	1.00	47.42	C
ATOM	10621	CA	TYR	C	975	17.421	81.185	57.001	1.00	47.42	C
ATOM	10622	CB	TYR	C	975	16.285	80.247	56.639	1.00	23.93	C
ATOM	10623	CG	TYR	C	975	14.889	80.746	57.007	1.00	23.93	C
ATOM	10624	CD1	TYR	C	975	13.999	81.186	56.029	1.00	23.93	C
ATOM	10625	CE1	TYR	C	975	12.688	81.461	56.335	1.00	23.93	C
ATOM	10626	CD2	TYR	C	975	14.410	80.629	58.299	1.00	23.93	C
ATOM	10627	CE2	TYR	C	975	13.100	80.908	58.601	1.00	23.93	C
ATOM	10628	CZ	TYR	C	975	12.248	81.312	57.616	1.00	23.93	C
ATOM	10629	OH	TYR	C	975	10.923	81.507	57.900	1.00	23.93	C
ATOM	10630	C	TYR	C	975	18.684	80.372	57.243	1.00	47.42	C

ATOM	10631	O	TYR	C	975	19.150	80.319	58.380	1.00	47.42	C
ATOM	10632	N	ASP	C	976	19.215	79.727	56.207	1.00	24.95	C
ATOM	10633	CA	ASP	C	976	20.433	78.896	56.306	1.00	24.95	C
ATOM	10634	CB	ASP	C	976	21.222	79.150	57.614	1.00	61.71	C
ATOM	10635	CG	ASP	C	976	22.563	78.392	57.675	1.00	61.71	C
ATOM	10636	OD1	ASP	C	976	23.352	78.469	56.708	1.00	61.71	C
ATOM	10637	OD2	ASP	C	976	22.840	77.732	58.702	1.00	61.71	C
ATOM	10638	C	ASP	C	976	20.024	77.436	56.220	1.00	24.95	C
ATOM	10639	O	ASP	C	976	20.222	76.655	57.157	1.00	24.95	C
ATOM	10640	N	GLY	C	977	19.452	77.100	55.064	1.00	32.37	C
ATOM	10641	CA	GLY	C	977	18.982	75.757	54.759	1.00	32.37	C
ATOM	10642	C	GLY	C	977	19.751	74.550	55.279	1.00	32.37	C
ATOM	10643	O	GLY	C	977	19.296	73.409	55.098	1.00	32.37	C
ATOM	10644	N	ARG	C	978	20.910	74.772	55.892	1.00	45.31	C
ATOM	10645	CA	ARG	C	978	21.653	73.658	56.436	1.00	45.31	C
ATOM	10646	CB	ARG	C	978	22.922	74.130	57.128	1.00	40.73	C
ATOM	10647	CG	ARG	C	978	23.865	74.893	56.235	1.00	40.73	C
ATOM	10648	CD	ARG	C	978	25.173	75.112	56.953	1.00	40.73	C
ATOM	10649	NE	ARG	C	978	26.230	75.584	56.070	1.00	40.73	C
ATOM	10650	CZ	ARG	C	978	27.525	75.487	56.355	1.00	40.73	C
ATOM	10651	NH1	ARG	C	978	27.933	74.938	57.496	1.00	40.73	C
ATOM	10652	NH2	ARG	C	978	28.421	75.938	55.497	1.00	40.73	C
ATOM	10653	C	ARG	C	978	20.711	73.021	57.448	1.00	45.31	C
ATOM	10654	O	ARG	C	978	20.507	71.807	57.429	1.00	45.31	C
ATOM	10655	N	THR	C	979	20.126	73.846	58.319	1.00	29.33	C
ATOM	10656	CA	THR	C	979	19.172	73.373	59.326	1.00	29.33	C
ATOM	10657	CB	THR	C	979	19.787	72.292	60.253	1.00	99.95	C
ATOM	10658	OG1	THR	C	979	19.884	71.047	59.551	1.00	99.95	C
ATOM	10659	CG2	THR	C	979	18.915	72.090	61.491	1.00	99.95	C
ATOM	10660	C	THR	C	979	18.666	74.499	60.214	1.00	29.33	C
ATOM	10661	O	THR	C	979	17.515	74.950	60.087	1.00	29.33	C
ATOM	10662	N	GLY	C	980	19.562	74.923	61.110	1.00	49.26	C
ATOM	10663	CA	GLY	C	980	19.318	75.973	62.091	1.00	49.26	C
ATOM	10664	C	GLY	C	980	18.201	76.976	61.893	1.00	49.26	C
ATOM	10665	O	GLY	C	980	17.653	77.458	62.866	1.00	49.26	C
ATOM	10666	N	GLU	C	981	17.878	77.287	60.643	1.00	100.07	C
ATOM	10667	CA	GLU	C	981	16.830	78.239	60.282	1.00	100.07	C
ATOM	10668	CB	GLU	C	981	15.481	77.895	60.957	1.00	100.07	C
ATOM	10669	CG	GLU	C	981	14.551	76.979	60.111	1.00	100.07	C
ATOM	10670	CD	GLU	C	981	13.055	77.391	60.125	1.00	100.07	C
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ATOM	10799	O	LEU	C	997	37.304	84.499	33.039	1.00	24.30	C
ATOM	10800	N	TYR	C	998	37.595	85.784	31.215	1.00	42.50	C
ATOM	10801	CA	TYR	C	998	38.327	84.764	30.465	1.00	42.50	C
ATOM	10802	CB	TYR	C	998	38.642	85.278	29.056	1.00	100.07	C
ATOM	10803	CG	TYR	C	998	39.674	84.484	28.280	1.00	100.07	C
ATOM	10804	CD1	TYR	C	998	39.579	83.097	28.162	1.00	100.07	C
ATOM	10805	CE1	TYR	C	998	40.505	82.367	27.388	1.00	100.07	C
ATOM	10806	CD2	TYR	C	998	40.720	85.132	27.613	1.00	100.07	C
ATOM	10807	CE2	TYR	C	998	41.649	84.416	26.837	1.00	100.07	C
ATOM	10808	CZ	TYR	C	998	41.534	83.035	26.729	1.00	100.07	C
ATOM	10809	OH	TYR	C	998	42.434	82.323	25.961	1.00	100.07	C
ATOM	10810	C	TYR	C	998	39.616	84.545	31.222	1.00	42.50	C
ATOM	10811	O	TYR	C	998	40.652	85.079	30.843	1.00	42.50	C
ATOM	10812	N	HIS	C	999	39.546	83.776	32.302	1.00	11.23	C
ATOM	10813	CA	HIS	C	999	40.710	83.510	33.130	1.00	11.23	C
ATOM	10814	CB	HIS	C	999	40.871	84.633	34.147	1.00	51.32	C
ATOM	10815	CG	HIS	C	999	42.177	85.354	34.060	1.00	51.32	C
ATOM	10816	CD2	HIS	C	999	43.176	85.493	34.965	1.00	51.32	C
ATOM	10817	ND1	HIS	C	999	42.566	86.062	32.949	1.00	51.32	C
ATOM	10818	CE1	HIS	C	999	43.747	86.607	33.166	1.00	51.32	C
ATOM	10819	NE2	HIS	C	999	44.143	86.279	34.383	1.00	51.32	C
ATOM	10820	C	HIS	C	999	40.423	82.218	33.864	1.00	11.23	C
ATOM	10821	O	HIS	C	999	40.959	81.975	34.954	1.00	11.23	C
ATOM	10822	N	MET	C	1000	39.553	81.403	33.269	1.00	39.96	C
ATOM	10823	CA	MET	C	1000	39.146	80.133	33.866	1.00	39.96	C
ATOM	10824	CB	MET	C	1000	38.187	79.382	32.926	1.00	53.24	C
ATOM	10825	CG	MET	C	1000	38.441	79.604	31.431	1.00	53.24	C
ATOM	10826	SD	MET	C	1000	37.162	80.576	30.552	1.00	53.24	C
ATOM	10827	CE	MET	C	1000	35.760	79.532	30.760	1.00	53.24	C
ATOM	10828	C	MET	C	1000	40.337	79.265	34.249	1.00	39.96	C
ATOM	10829	O	MET	C	1000	41.431	79.425	33.722	1.00	39.96	C
ATOM	10830	N	VAL	C	1001	40.123	78.356	35.187	1.00	10.65	C
ATOM	10831	CA	VAL	C	1001	41.197	77.506	35.646	1.00	10.65	C
ATOM	10832	CB	VAL	C	1001	40.784	76.619	36.771	1.00	16.57	C
ATOM	10833	CG1	VAL	C	1001	41.968	75.785	37.171	1.00	16.57	C
ATOM	10834	CG2	VAL	C	1001	40.246	77.435	37.926	1.00	16.57	C
ATOM	10835	C	VAL	C	1001	41.639	76.570	34.578	1.00	10.65	C
ATOM	10836	O	VAL	C	1001	42.832	76.421	34.353	1.00	10.65	C
ATOM	10837	N	GLU	C	1002	40.658	75.909	33.957	1.00	34.63	C
ATOM	10838	CA	GLU	C	1002	40.889	74.935	32.890	1.00	34.63	C
ATOM	10839	CB	GLU	C	1002	39.742	74.953	31.873	1.00	85.36	C
ATOM	10840	CG	GLU	C	1002	38.372	74.570	32.419	1.00	85.36	C
ATOM	10841	CD	GLU	C	1002	37.778	73.335	31.743	1.00	85.36	C
ATOM	10842	OE1	GLU	C	1002	38.234	72.204	32.027	1.00	85.36	C
ATOM	10843	OE2	GLU	C	1002	36.852	73.498	30.920	1.00	85.36	C
ATOM	10844	C	GLU	C	1002	42.176	75.268	32.179	1.00	34.63	C
ATOM	10845	O	GLU	C	1002	43.158	74.541	32.281	1.00	34.63	C
ATOM	10846	N	ASP	C	1003	42.147	76.390	31.467	1.00	33.92	C
ATOM	10847	CA	ASP	C	1003	43.283	76.892	30.712	1.00	33.92	C
ATOM	10848	CB	ASP	C	1003	43.020	78.325	30.263	1.00	45.68	C
ATOM	10849	CG	ASP	C	1003	42.406	78.401	28.892	1.00	45.68	C
ATOM	10850	OD1	ASP	C	1003	43.059	77.932	27.935	1.00	45.68	C
ATOM	10851	OD2	ASP	C	1003	41.281	78.931	28.763	1.00	45.68	C
ATOM	10852	C	ASP	C	1003	44.598	76.864	31.463	1.00	33.92	C
ATOM	10853	O	ASP	C	1003	45.651	76.971	30.837	1.00	33.92	C
ATOM	10854	N	LYS	C	1004	44.550	76.726	32.788	1.00	32.49	C
ATOM	10855	CA	LYS	C	1004	45.764	76.704	33.603	1.00	32.49	C
ATOM	10856	CB	LYS	C	1004	45.699	77.846	34.611	1.00	61.48	C
ATOM	10857	CG	LYS	C	1004	45.652	79.198	33.946	1.00	61.48	C
ATOM	10858	CD	LYS	C	1004	45.287	80.289	34.922	1.00	61.48	C
ATOM	10859	CE	LYS	C	1004	45.072	81.610	34.196	1.00	61.48	C
ATOM	10860	NZ	LYS	C	1004	44.325	82.583	35.043	1.00	61.48	C
ATOM	10861	C	LYS	C	1004	46.068	75.378	34.317	1.00	32.49	C
ATOM	10862	O	LYS	C	1004	45.385	74.379	34.117	1.00	32.49	C
ATOM	10863	N	MET	C	1005	47.108	75.383	35.144	1.00	29.86	C
ATOM	10864	CA	MET	C	1005	47.541	74.208	35.898	1.00	29.86	C
ATOM	10865	CB	MET	C	1005	46.439	73.715	36.846	1.00	50.48	C
ATOM	10866	CG	MET	C	1005	45.484	72.657	36.299	1.00	50.48	C
ATOM	10867	SD	MET	C	1005	44.955	71.438	37.556	1.00	50.48	C
ATOM	10868	CE	MET	C	1005	45.992	70.076	37.147	1.00	50.48	C
ATOM	10869	C	MET	C	1005	48.023	73.036	35.041	1.00	29.86	C
ATOM	10870	O	MET	C	1005	47.222	72.370	34.365	1.00	29.86	C
ATOM	10871	N	HIS	C	1006	49.344	72.816	35.063	1.00	15.86	C
ATOM	10872	CA	HIS	C	1006	49.997	71.721	34.350	1.00	15.86	C
ATOM	10873	CB	HIS	C	1006	51.107	72.243	33.428	1.00	98.34	C
ATOM	10874	CG	HIS	C	1006	51.129	71.579	32.079	1.00	98.34	C
ATOM	10875	CD2	HIS	C	1006	50.775	70.329	31.693	1.00	98.34	C
ATOM	10876	ND1	HIS	C	1006	51.524	72.235	30.930	1.00	98.34	C
ATOM	10877	CE1	HIS	C	1006	51.407	71.419	29.897	1.00	98.34	C
ATOM	10878	NE2	HIS	C	1006	50.954	70.257	30.332	1.00	98.34	C
ATOM	10879	C	HIS	C	1006	50.563	70.916	35.494	1.00	15.86	C
ATOM	10880	O	HIS	C	1006	50.202	71.176	36.629	1.00	15.86	C
ATOM	10881	N	ALA	C	1007	51.417	69.938	35.229	1.00	45.08	C
ATOM	10882	CA	ALA	C	1007	52.004	69.141	36.312	1.00	45.08	C

ATOM	10883	CB	ALA	C1007	50.919	68.388	37.072	1.00	20.02	C
ATOM	10884	C	ALA	C1007	53.018	68.161	35.751	1.00	45.08	C
ATOM	10885	O	ALA	C1007	52.661	67.079	35.300	1.00	45.08	C
ATOM	10886	N	ARG	C1008	54.288	68.535	35.784	1.00	33.31	C
ATOM	10887	CA	ARG	C1008	55.319	67.675	35.242	1.00	33.31	C
ATOM	10888	CB	ARG	C1008	56.346	68.515	34.481	1.00	50.90	C
ATOM	10889	CG	ARG	C1008	57.556	67.717	34.042	1.00	50.90	C
ATOM	10890	CD	ARG	C1008	58.295	68.383	32.908	1.00	50.90	C
ATOM	10891	NE	ARG	C1008	59.433	67.577	32.492	1.00	50.90	C
ATOM	10892	CZ	ARG	C1008	60.219	67.861	31.459	1.00	50.90	C
ATOM	10893	NH1	ARG	C1008	60.001	68.939	30.714	1.00	50.90	C
ATOM	10894	NH2	ARG	C1008	61.232	67.058	31.171	1.00	50.90	C
ATOM	10895	C	ARG	C1008	56.040	66.780	36.247	1.00	33.31	C
ATOM	10896	O	ARG	C1008	56.488	67.234	37.294	1.00	33.31	C
ATOM	10897	N	SER	C1009	56.121	65.493	35.930	1.00	31.12	C
ATOM	10898	CA	SER	C1009	56.841	64.554	36.765	1.00	31.12	C
ATOM	10899	CB	SER	C1009	56.045	63.288	37.016	1.00	57.05	C
ATOM	10900	OG	SER	C1009	56.545	62.647	38.175	1.00	57.05	C
ATOM	10901	C	SER	C1009	57.988	64.260	35.841	1.00	31.12	C
ATOM	10902	O	SER	C1009	58.720	65.170	35.501	1.00	31.12	C
ATOM	10903	N	THR	C1010	58.136	63.018	35.402	1.00	59.25	C
ATOM	10904	CA	THR	C1010	59.225	62.689	34.492	1.00	59.25	C
ATOM	10905	CB	THR	C1010	59.061	61.263	33.944	1.00	100.07	C
ATOM	10906	OG1	THR	C1010	58.629	60.398	35.000	1.00	100.07	C
ATOM	10907	CG2	THR	C1010	60.381	60.743	33.399	1.00	100.07	C
ATOM	10908	C	THR	C1010	59.155	63.710	33.346	1.00	59.25	C
ATOM	10909	O	THR	C1010	59.607	64.843	33.488	1.00	59.25	C
ATOM	10910	N	GLY	C1011	58.592	63.323	32.208	1.00	58.45	C
ATOM	10911	CA	GLY	C1011	58.464	64.263	31.108	1.00	58.45	C
ATOM	10912	C	GLY	C1011	59.624	64.383	30.144	1.00	58.45	C
ATOM	10913	O	GLY	C1011	60.682	63.797	30.363	1.00	58.45	C
ATOM	10914	N	PRO	C1012	59.441	65.151	29.053	1.00	37.00	C
ATOM	10915	CD	PRO	C1012	58.130	65.729	28.709	1.00	44.34	C
ATOM	10916	CA	PRO	C1012	60.397	65.430	27.974	1.00	37.00	C
ATOM	10917	CB	PRO	C1012	59.513	65.996	26.877	1.00	44.34	C
ATOM	10918	CG	PRO	C1012	58.504	66.734	27.650	1.00	44.34	C
ATOM	10919	C	PRO	C1012	61.520	66.387	28.318	1.00	37.00	C
ATOM	10920	O	PRO	C1012	61.282	67.563	28.591	1.00	37.00	C
ATOM	10921	N	TYR	C1013	62.734	65.850	28.270	1.00	62.41	C
ATOM	10922	CA	TYR	C1013	64.000	66.534	28.538	1.00	62.41	C
ATOM	10923	CB	TYR	C1013	65.120	65.604	28.081	1.00	100.04	C
ATOM	10924	CG	TYR	C1013	64.853	64.945	26.726	1.00		

ATOM	10967	OE1	GLN	C1018	69.218	67.364	28.388	1.00	91.29	C
ATOM	10968	NE2	GLN	C1018	70.778	66.483	29.742	1.00	91.29	C
ATOM	10969	C	GLN	C1018	68.305	70.096	29.907	1.00	33.99	C
ATOM	10970	O	GLN	C1018	68.167	69.054	30.557	1.00	33.99	C
ATOM	10971	N	GLN	C1019	67.666	71.217	30.223	1.00	44.02	C
ATOM	10972	CA	GLN	C1019	66.731	71.232	31.342	1.00	44.02	C
ATOM	10973	CB	GLN	C1019	67.025	72.415	32.273	1.00	30.53	C
ATOM	10974	CG	GLN	C1019	67.290	73.725	31.560	1.00	30.53	C
ATOM	10975	CD	GLN	C1019	67.411	74.907	32.515	1.00	30.53	C
ATOM	10976	OE1	GLN	C1019	68.344	74.992	33.320	1.00	30.53	C
ATOM	10977	NE2	GLN	C1019	66.459	75.829	32.425	1.00	30.53	C
ATOM	10978	C	GLN	C1019	65.280	71.275	30.829	1.00	44.02	C
ATOM	10979	O	GLN	C1019	64.965	72.004	29.884	1.00	44.02	C
ATOM	10980	N	PRO	C1020	64.381	70.499	31.464	1.00	42.70	C
ATOM	10981	CD	PRO	C1020	64.652	70.085	32.856	1.00	38.29	C
ATOM	10982	CA	PRO	C1020	62.950	70.354	31.166	1.00	42.70	C
ATOM	10983	CB	PRO	C1020	62.323	70.349	32.549	1.00	38.29	C
ATOM	10984	CG	PRO	C1020	63.308	69.559	33.335	1.00	38.29	C
ATOM	10985	C	PRO	C1020	62.323	71.409	30.257	1.00	42.70	C
ATOM	10986	O	PRO	C1020	62.444	72.607	30.503	1.00	42.70	C
ATOM	10987	N	LEU	C1021	61.642	70.951	29.212	1.00	85.35	C
ATOM	10988	CA	LEU	C1021	60.982	71.844	28.262	1.00	85.35	C
ATOM	10989	CB	LEU	C1021	61.970	72.872	27.711	1.00	99.93	C
ATOM	10990	CG	LEU	C1021	61.389	74.271	27.509	1.00	99.93	C
ATOM	10991	CD1	LEU	C1021	60.152	74.200	26.615	1.00	99.93	C
ATOM	10992	CD2	LEU	C1021	61.038	74.865	28.866	1.00	99.93	C
ATOM	10993	C	LEU	C1021	60.374	71.042	27.110	1.00	85.35	C
ATOM	10994	O	LEU	C1021	60.953	70.058	26.644	1.00	85.35	C
ATOM	10995	N	GLY	C1022	59.210	71.476	26.642	1.00	100.07	C
ATOM	10996	CA	GLY	C1022	58.537	70.754	25.581	1.00	100.07	C
ATOM	10997	C	GLY	C1022	57.750	69.623	26.228	1.00	100.07	C
ATOM	10998	O	GLY	C1022	57.907	69.367	27.428	1.00	100.07	C
ATOM	10999	N	GLY	C1023	56.897	68.954	25.450	1.00	100.07	C
ATOM	11000	CA	GLY	C1023	56.107	67.856	25.991	1.00	100.07	C
ATOM	11001	C	GLY	C1023	55.164	67.123	25.046	1.00	100.07	C
ATOM	11002	O	GLY	C1023	53.944	67.333	25.086	1.00	100.07	C
ATOM	11003	N	LYS	C1024	55.722	66.257	24.201	1.00	100.07	C
ATOM	11004	CA	LYS	C1024	54.920	65.478	23.266	1.00	100.07	C
ATOM	11005	CB	LYS	C1024	55.802	64.878	22.164	1.00	97.81	C
ATOM	11006	CG	LYS	C1024	56.619	65.896	21.368	1.00	97.81	C
ATOM	11007	CD	LYS	C1024	57.317	65.261	20.153	1.00	97.81	C
ATOM	11008	CE	LYS	C1024	58					

ATOM	11051	NE2	GLN	C1030	55.454	74.882	37.734	1.00	22.64	C
ATOM	11052	C	GLN	C1030	59.541	75.103	35.971	1.00	59.66	C
ATOM	11053	O	GLN	C1030	60.505	74.931	35.235	1.00	59.66	C
ATOM	11054	N	ARG	C1031	59.412	76.160	36.773	1.00	36.92	C
ATOM	11055	CA	ARG	C1031	60.405	77.244	36.795	1.00	36.92	C
ATOM	11056	CB	ARG	C1031	59.719	78.542	36.350	1.00	100.07	C
ATOM	11057	CG	ARG	C1031	58.717	78.297	35.206	1.00	100.07	C
ATOM	11058	CD	ARG	C1031	58.187	79.562	34.518	1.00	100.07	C
ATOM	11059	NE	ARG	C1031	57.157	79.222	33.531	1.00	100.07	C
ATOM	11060	CZ	ARG	C1031	56.562	80.093	32.717	1.00	100.07	C
ATOM	11061	NH1	ARG	C1031	56.890	81.379	32.757	1.00	100.07	C
ATOM	11062	NH2	ARG	C1031	55.627	79.675	31.867	1.00	100.07	C
ATOM	11063	C	ARG	C1031	61.049	77.403	38.172	1.00	36.92	C
ATOM	11064	O	ARG	C1031	60.770	76.611	39.063	1.00	36.92	C
ATOM	11065	N	PHE	C1032	61.916	78.397	38.364	1.00	43.17	C
ATOM	11066	CA	PHE	C1032	62.534	78.567	39.692	1.00	43.17	C
ATOM	11067	CB	PHE	C1032	63.490	77.405	39.956	1.00	6.13	C
ATOM	11068	CG	PHE	C1032	63.661	77.066	41.415	1.00	6.13	C
ATOM	11069	CD1	PHE	C1032	62.556	76.836	42.225	1.00	6.13	C
ATOM	11070	CD2	PHE	C1032	64.939	76.906	41.967	1.00	6.13	C
ATOM	11071	CE1	PHE	C1032	62.724	76.444	43.576	1.00	6.13	C
ATOM	11072	CE2	PHE	C1032	65.115	76.516	43.301	1.00	6.13	C
ATOM	11073	CZ	PHE	C1032	64.006	76.285	44.107	1.00	6.13	C
ATOM	11074	C	PHE	C1032	63.271	79.900	39.902	1.00	43.17	C
ATOM	11075	O	PHE	C1032	64.346	79.938	40.514	1.00	43.17	C
ATOM	11076	N	GLY	C1033	62.664	80.983	39.410	1.00	98.19	C
ATOM	11077	CA	GLY	C1033	63.230	82.325	39.499	1.00	98.19	C
ATOM	11078	C	GLY	C1033	63.908	82.779	40.781	1.00	98.19	C
ATOM	11079	O	GLY	C1033	63.256	83.316	41.677	1.00	98.19	C
ATOM	11080	N	GLU	C1034	65.226	82.581	40.833	1.00	31.25	C
ATOM	11081	CA	GLU	C1034	66.091	82.939	41.952	1.00	31.25	C
ATOM	11082	CB	GLU	C1034	66.957	84.142	41.581	1.00	25.78	C
ATOM	11083	CG	GLU	C1034	66.193	85.436	41.478	1.00	25.78	C
ATOM	11084	CD	GLU	C1034	67.053	86.606	41.039	1.00	25.78	C
ATOM	11085	OE1	GLU	C1034	68.183	86.747	41.562	1.00	25.78	C
ATOM	11086	OE2	GLU	C1034	66.584	87.392	40.179	1.00	25.78	C
ATOM	11087	C	GLU	C1034	65.403	83.194	43.285	1.00	31.25	C
ATOM	11088	O	GLU	C1034	65.659	82.465	44.238	1.00	31.25	C
ATOM	11089	N	MET	C1035	64.550	84.217	43.370	1.00	33.31	C
ATOM	11090	CA	MET	C1035	63.844	84.540	44.619	1.00	33.31	C
ATOM	11091	CB	MET	C1035	62.454	85.087	44.318	1.00	55.27	C
ATOM	11092	CG	MET	C1035	62.458	86.351	43.500	1.00	55.27	C
ATOM	11093	SD	MET	C1035	62.842	87.802	44.457	1.00	55.27	C
ATOM	11094	CE	MET	C1035	62.370	89.055	43.311	1.00	55.27	C
ATOM	11095	C	MET	C1035	63.703	83.309	45.506	1.00	33.31	C
ATOM	11096	O	MET	C1035	64.017	83.345	46.695	1.00	33.31	C
ATOM	11097	N	GLU	C1036	63.225	82.221	44.909	1.00	25.45	C
ATOM	11098	CA	GLU	C1036	63.048	80.962	45.613	1.00	25.45	C
ATOM	11099	CB	GLU	C1036	62.514	79.902	44.651	1.00	47.40	C
ATOM	11100	CG	GLU	C1036	61.136	80.247	44.085	1.00	47.40	C
ATOM	11101	CD	GLU	C1036	61.124	81.520	43.246	1.00	47.40	C
ATOM	11102	OE1	GLU	C1036	61.633	81.489	42.108	1.00	47.40	C
ATOM	11103	OE2	GLU	C1036	60.610	82.552	43.724	1.00	47.40	C
ATOM	11104	C	GLU	C1036	64.373	80.517	46.221	1.00	25.45	C
ATOM	11105	O	GLU	C1036	64.438	80.208	47.417	1.00	25.45	C
ATOM	11106	N	VAL	C1037	65.426	80.500	45.404	1.00	52.60	C
ATOM	11107	CA	VAL	C1037	66.753	80.108	45.868	1.00	52.60	C
ATOM	11108	CB	VAL	C1037	67.870	80.648	44.992	1.00	23.51	C
ATOM	11109	CG1	VAL	C1037	69.148	79.957	45.358	1.00	23.51	C
ATOM	11110	CG2	VAL	C1037	67.551	80.446	43.540	1.00	23.51	C
ATOM	11111	C	VAL	C1037	67.017	80.656	47.254	1.00	52.60	C
ATOM	11112	O	VAL	C1037	67.216	79.890	48.194	1.00	52.60	C
ATOM	11113	N	TRP	C1038	67.047	81.982	47.380	1.00	23.44	C
ATOM	11114	CA	TRP	C1038	67.271	82.574	48.690	1.00	23.44	C
ATOM	11115	CB	TRP	C1038	66.816	84.048	48.752	1.00	30.22	C
ATOM	11116	CG	TRP	C1038	67.603	85.011	47.894	1.00	30.22	C
ATOM	11117	CD2	TRP	C1038	67.071	86.005	47.018	1.00	30.22	C
ATOM	11118	CE2	TRP	C1038	68.161	86.617	46.366	1.00	30.22	C
ATOM	11119	CE3	TRP	C1038	65.775	86.438	46.721	1.00	30.22	C
ATOM	11120	CD1	TRP	C1038	68.949	85.066	47.752	1.00	30.22	C
ATOM	11121	NE1	TRP	C1038	69.298	86.023	46.831	1.00	30.22	C
ATOM	11122	CZ2	TRP	C1038	68.003	87.628	45.429	1.00	30.22	C
ATOM	11123	CZ3	TRP	C1038	65.616	87.446	45.786	1.00	30.22	C
ATOM	11124	CH2	TRP	C1038	66.729	88.034	45.149	1.00	30.22	C
ATOM	11125	C	TRP	C1038	66.437	81.747	49.667	1.00	23.44	C
ATOM	11126	O	TRP	C1038	66.991	81.090	50.536	1.00	23.44	C
ATOM	11127	N	ALA	C1039	65.113	81.752	49.492	1.00	5.13	C
ATOM	11128	CA	ALA	C1039	64.202	81.009	50.368	1.00	5.13	C
ATOM	11129	CB	ALA	C1039	62.931	80.675	49.639	1.00	21.81	C
ATOM	11130	C	ALA	C1039	64.847	79.732	50.859	1.00	5.13	C
ATOM	11131	O	ALA	C1039	65.059	79.539	52.061	1.00	5.13	C
ATOM	11132	N	LEU	C1040	65.159	78.847	49.926	1.00	22.00	C
ATOM	11133	CA	LEU	C1040	65.783	77.610	50.327	1.00	22.00	C
ATOM	11134	CB	LEU	C1040	66.231	76.818	49.098	1.00	39.12	C

ATOM	11135	CG	LEU	C1040	65.075	76.292	48.237	1.00	39.12	C
ATOM	11136	CD1	LEU	C1040	63.977	75.746	49.146	1.00	39.12	C
ATOM	11137	CD2	LEU	C1040	64.511	77.399	47.377	1.00	39.12	C
ATOM	11138	C	LEU	C1040	66.952	77.945	51.246	1.00	22.00	C
ATOM	11139	O	LEU	C1040	67.016	77.444	52.366	1.00	22.00	C
ATOM	11140	N	GLU	C1041	67.853	78.812	50.789	1.00	24.23	C
ATOM	11141	CA	GLU	C1041	69.008	79.223	51.593	1.00	24.23	C
ATOM	11142	CB	GLU	C1041	69.848	80.280	50.854	1.00	17.57	C
ATOM	11143	CG	GLU	C1041	70.602	79.823	49.595	1.00	17.57	C
ATOM	11144	CD	GLU	C1041	71.273	80.994	48.855	1.00	17.57	C
ATOM	11145	OE1	GLU	C1041	70.549	81.939	48.505	1.00	17.57	C
ATOM	11146	OE2	GLU	C1041	72.500	80.988	48.618	1.00	17.57	C
ATOM	11147	C	GLU	C1041	68.533	79.830	52.917	1.00	24.23	C
ATOM	11148	O	GLU	C1041	68.859	79.317	53.990	1.00	24.23	C
ATOM	11149	N	ALA	C1042	67.768	80.927	52.816	1.00	11.12	C
ATOM	11150	CA	ALA	C1042	67.237	81.669	53.967	1.00	11.12	C
ATOM	11151	CB	ALA	C1042	65.966	82.425	53.590	1.00	58.04	C
ATOM	11152	C	ALA	C1042	66.962	80.687	55.062	1.00	11.12	C
ATOM	11153	O	ALA	C1042	67.303	80.928	56.203	1.00	11.12	C
ATOM	11154	N	TYR	C1043	66.341	79.569	54.722	1.00	37.76	C
ATOM	11155	CA	TYR	C1043	66.110	78.552	55.734	1.00	37.76	C
ATOM	11156	CB	TYR	C1043	65.239	77.400	55.214	1.00	32.84	C
ATOM	11157	CG	TYR	C1043	63.763	77.658	55.144	1.00	32.84	C
ATOM	11158	CD1	TYR	C1043	63.196	78.229	54.024	1.00	32.84	C
ATOM	11159	CE1	TYR	C1043	61.838	78.423	53.948	1.00	32.84	C
ATOM	11160	CD2	TYR	C1043	62.927	77.292	56.193	1.00	32.84	C
ATOM	11161	CE2	TYR	C1043	61.572	77.484	56.125	1.00	32.84	C
ATOM	11162	CZ	TYR	C1043	61.033	78.046	54.999	1.00	32.84	C
ATOM	11163	OH	TYR	C1043	59.678	78.214	54.896	1.00	32.84	C
ATOM	11164	C	TYR	C1043	67.486	77.970	55.979	1.00	37.76	C
ATOM	11165	O	TYR	C1043	68.415	78.611	56.468	1.00	37.76	C
ATOM	11166	N	GLY	C1044	67.577	76.724	55.572	1.00	30.65	C
ATOM	11167	CA	GLY	C1044	68.772	75.941	55.667	1.00	30.65	C
ATOM	11168	C	GLY	C1044	68.100	74.715	55.125	1.00	30.65	C
ATOM	11169	O	GLY	C1044	67.077	74.293	55.663	1.00	30.65	C
ATOM	11170	N	ALA	C1045	68.616	74.174	54.039	1.00	28.37	C
ATOM	11171	CA	ALA	C1045	68.007	72.999	53.475	1.00	28.37	C
ATOM	11172	CB	ALA	C1045	66.599	73.309	53.066	1.00	5.07	C
ATOM	11173	C	ALA	C1045	68.818	72.594	52.278	1.00	28.37	C
ATOM	11174	O	ALA	C1045	68.378	71.779	51.470	1.00	28.37	C
ATOM	11175	N	ALA	C1046	70.008	73.175	52.175	1.00	24.84	C
ATOM	11176	CA	ALA	C1046	70.913	72.916	51.066	1.00	24.84	C
ATOM	11177	CB	ALA	C1046	72.342	72.826	51.574	1.00	42.88	C
ATOM	11178	C	ALA	C1046	70.532	71.651	50.307	1.00	24.84	C
ATOM	11179	O	ALA	C1046	70.229	71.710	49.108	1.00	24.84	C
ATOM	11180	N	HIS	C1047	70.511	70.516	51.006	1.00	19.24	C
ATOM	11181	CA	HIS	C1047	70.163	69.264	50.343	1.00	19.24	C
ATOM	11182	CB	HIS	C1047	70.054	68.134	51.365	1.00	99.82	C
ATOM	11183	CG	HIS	C1047	71.384	67.597	51.793	1.00	99.82	C
ATOM	11184	CD2	HIS	C1047	72.044	67.677	52.973	1.00	99.82	C
ATOM	11185	ND1	HIS	C1047	72.224	66.923	50.933	1.00	99.82	C
ATOM	11186	CE1	HIS	C1047	73.341	66.612	51.564	1.00	99.82	C
ATOM	11187	NE2	HIS	C1047	73.258	67.057	52.804	1.00	99.82	C
ATOM	11188	C	HIS	C1047	68.897	69.378	49.507	1.00	19.24	C
ATOM	11189	O	HIS	C1047	68.895	69.004	48.335	1.00	19.24	C
ATOM	11190	N	THR	C1048	67.832	69.908	50.100	1.00	34.66	C
ATOM	11191	CA	THR	C1048	66.573	70.091	49.387	1.00	34.66	C
ATOM	11192	CB	THR	C1048	65.543	70.846	50.219	1.00	41.37	C
ATOM	11193	OG1	THR	C1048	65.303	70.152	51.449	1.00	41.37	C
ATOM	11194	CG2	THR	C1048	64.251	70.969	49.437	1.00	41.37	C
ATOM	11195	C	THR	C1048	66.840	70.938	48.162	1.00	34.66	C
ATOM	11196	O	THR	C1048	66.300	70.676	47.087	1.00	34.66	C
ATOM	11197	N	LEU	C1049	67.667	71.967	48.345	1.00	27.07	C
ATOM	11198	CA	LEU	C1049	68.023	72.868	47.257	1.00	27.07	C
ATOM	11199	CB	LEU	C1049	68.731	74.114	47.780	1.00	22.64	C
ATOM	11200	CG	LEU	C1049	69.247	74.954	46.612	1.00	22.64	C
ATOM	11201	CD1	LEU	C1049	68.099	75.267	45.712	1.00	22.64	C
ATOM	11202	CD2	LEU	C1049	69.876	76.229	47.092	1.00	22.64	C
ATOM	11203	C	LEU	C1049	68.932	72.182	46.253	1.00	27.07	C
ATOM	11204	O	LEU	C1049	68.747	72.327	45.050	1.00	27.07	C
ATOM	11205	N	GLN	C1050	69.923	71.451	46.761	1.00	66.41	C
ATOM	11206	CA	GLN	C1050	70.876	70.723	45.922	1.00	66.41	C
ATOM	11207	CB	GLN	C1050	71.708	69.755	46.799	1.00	41.38	C
ATOM	11208	CG	GLN	C1050	72.482	68.615	46.064	1.00	41.38	C
ATOM	11209	CD	GLN	C1050	73.972	68.892	45.839	1.00	41.38	C
ATOM	11210	OE1	GLN	C1050	74.836	68.180	46.370	1.00	41.38	C
ATOM	11211	NE2	GLN	C1050	74.275	69.919	45.040	1.00	41.38	C
ATOM	11212	C	GLN	C1050	70.112	69.955	44.842	1.00	66.41	C
ATOM	11213	O	GLN	C1050	70.372	70.096	43.647	1.00	66.41	C
ATOM	11214	N	GLU	C1051	69.149	69.155	45.277	1.00	40.71	C
ATOM	11215	CA	GLU	C1051	68.348	68.356	44.369	1.00	40.71	C
ATOM	11216	CB	GLU	C1051	67.360	67.539	45.202	1.00	62.66	C
ATOM	11217	CG	GLU	C1051	66.053	67.266	44.533	1.00	62.66	C
ATOM	11218	CD	GLU	C1051	64.899	67.678	45.406	1.00	62.66	C

ATOM	11303	CA	GLY	C1062	70.754	62.561	38.763	1.00	36.80	C
ATOM	11304	C	GLY	C1062	69.472	62.002	38.197	1.00	36.80	C
ATOM	11305	O	GLY	C1062	68.936	61.012	38.702	1.00	36.80	C
ATOM	11306	N	ARG	C1063	68.984	62.648	37.144	1.00	48.95	C
ATOM	11307	CA	ARG	C1063	67.767	62.220	36.493	1.00	48.95	C
ATOM	11308	CB	ARG	C1063	67.757	62.708	35.044	1.00	50.82	C
ATOM	11309	CG	ARG	C1063	67.856	64.227	34.917	1.00	50.82	C
ATOM	11310	CD	ARG	C1063	68.058	64.695	33.474	1.00	50.82	C
ATOM	11311	NE	ARG	C1063	66.829	64.764	32.693	1.00	50.82	C
ATOM	11312	CZ	ARG	C1063	66.756	65.344	31.502	1.00	50.82	C
ATOM	11313	NH1	ARG	C1063	67.839	65.890	30.971	1.00	50.82	C
ATOM	11314	NH2	ARG	C1063	65.601	65.402	30.854	1.00	50.82	C
ATOM	11315	C	ARG	C1063	67.718	60.703	36.547	1.00	48.95	C
ATOM	11316	O	ARG	C1063	66.868	60.137	37.229	1.00	48.95	C
ATOM	11317	N	ASN	C1064	68.652	60.052	35.859	1.00	32.70	C
ATOM	11318	CA	ASN	C1064	68.714	58.593	35.834	1.00	32.70	C
ATOM	11319	CB	ASN	C1064	70.009	58.144	35.169	1.00	100.07	C
ATOM	11320	CG	ASN	C1064	70.322	58.948	33.930	1.00	100.07	C
ATOM	11321	OD1	ASN	C1064	69.509	59.034	33.009	1.00	100.07	C
ATOM	11322	ND2	ASN	C1064	71.502	59.552	33.902	1.00	100.07	C
ATOM	11323	C	ASN	C1064	68.622	57.999	37.238	1.00	32.70	C
ATOM	11324	O	ASN	C1064	67.607	57.404	37.604	1.00	32.70	C
ATOM	11325	N	ALA	C1065	69.680	58.161	38.023	1.00	73.60	C
ATOM	11326	CA	ALA	C1065	69.694	57.638	39.386	1.00	73.60	C
ATOM	11327	CB	ALA	C1065	70.828	58.264	40.167	1.00	100.07	C
ATOM	11328	C	ALA	C1065	68.373	57.966	40.054	1.00	73.60	C
ATOM	11329	O	ALA	C1065	67.784	57.143	40.756	1.00	73.60	C
ATOM	11330	N	ALA	C1066	67.922	59.189	39.818	1.00	80.92	C
ATOM	11331	CA	ALA	C1066	66.676	59.681	40.367	1.00	80.92	C
ATOM	11332	CB	ALA	C1066	66.451	61.119	39.906	1.00	19.44	C
ATOM	11333	C	ALA	C1066	65.507	58.804	39.931	1.00	80.92	C
ATOM	11334	O	ALA	C1066	64.862	58.156	40.758	1.00	80.92	C
ATOM	11335	N	TYR	C1067	65.257	58.778	38.623	1.00	45.00	C
ATOM	11336	CA	TYR	C1067	64.152	58.020	38.061	1.00	45.00	C
ATOM	11337	CB	TYR	C1067	63.924	58.384	36.601	1.00	63.03	C
ATOM	11338	CG	TYR	C1067	62.583	57.898	36.108	1.00	63.03	C
ATOM	11339	CD1	TYR	C1067	61.411	58.551	36.473	1.00	63.03	C
ATOM	11340	CE1	TYR	C1067	60.159	58.084	36.060	1.00	63.03	C
ATOM	11341	CD2	TYR	C1067	62.475	56.762	35.315	1.00	63.03	C
ATOM	11342	CE2	TYR	C1067	61.223	56.284	34.897	1.00	63.03	C
ATOM	11343	CZ	TYR	C1067	60.071	56.951	35.273	1.00	63.03	C
ATOM	11344	OH	TYR	C1067	58.831	56.495	34.873	1.00	63.03	C
ATOM	11345	C	TYR	C1067	64.276	56.518	38.142	1.00	45.00	C
ATOM	11346	O	TYR	C1067	63.302	55.823	37.879	1.00	45.00	C
ATOM	11347	N	GLN	C1068	65.456	56.006	38.482	1.00	69.85	C
ATOM	11348	CA	GLN	C1068	65.649	54.557	38.585	1.00	69.85	C
ATOM	11349	CB	GLN	C1068	67.043	54.166	38.087	1.00	100.07	C
ATOM	11350	CG	GLN	C1068	67.251	54.421	36.599	1.00	100.07	C
ATOM	11351	CD	GLN	C1068	68.652	54.079	36.126	1.00	100.07	C
ATOM	11352	OE1	GLN	C1068	69.115	52.946	36.291	1.00	100.07	C
ATOM	11353	NE2	GLN	C1068	69.335	55.058	35.528	1.00	100.07	C
ATOM	11354	C	GLN	C1068	65.468	54.109	40.027	1.00	69.85	C
ATOM	11355	O	GLN	C1068	64.844	53.084	40.309	1.00	69.85	C
ATOM	11356	N	ALA	C1069	66.016	54.898	40.939	1.00	36.94	C
ATOM	11357	CA	ALA	C1069	65.918	54.603	42.354	1.00	36.94	C
ATOM	11358	CB	ALA	C1069	66.685	55.643	43.154	1.00	100.07	C
ATOM	11359	C	ALA	C1069	64.457	54.619	42.756	1.00	36.94	C
ATOM	11360	O	ALA	C1069	64.009	53.799	43.558	1.00	36.94	C
ATOM	11361	N	ILE	C1070	63.714	55.559	42.186	1.00	53.32	C
ATOM	11362	CA	ILE	C1070	62.303	55.703	42.497	1.00	53.32	C
ATOM	11363	CB	ILE	C1070	61.765	57.030	41.939	1.00	78.37	C
ATOM	11364	CG2	ILE	C1070	60.252	57.085	42.075	1.00	78.37	C
ATOM	11365	CG1	ILE	C1070	62.430	58.190	42.687	1.00	78.37	C
ATOM	11366	CD	ILE	C1070	61.981	59.550	42.244	1.00	78.37	C
ATOM	11367	C	ILE	C1070	61.438	54.545	42.025	1.00	53.32	C
ATOM	11368	O	ILE	C1070	60.635	54.034	42.800	1.00	53.32	C
ATOM	11369	N	ILE	C1071	61.592	54.132	40.768	1.00	68.00	C
ATOM	11370	CA	ILE	C1071	60.809	53.010	40.247	1.00	68.00	C
ATOM	11371	CB	ILE	C1071	61.319	52.512	38.876	1.00	78.64	C
ATOM	11372	CG2	ILE	C1071	60.257	51.635	38.234	1.00	78.64	C
ATOM	11373	CG1	ILE	C1071	61.648	53.680	37.949	1.00	78.64	C
ATOM	11374	CD	ILE	C1071	60.449	54.406	37.416	1.00	78.64	C
ATOM	11375	C	ILE	C1071	61.021	51.862	41.230	1.00	68.00	C
ATOM	11376	O	ILE	C1071	60.163	50.993	41.421	1.00	68.00	C
ATOM	11377	N	LYS	C1072	62.199	51.871	41.840	1.00	68.80	C
ATOM	11378	CA	LYS	C1072	62.572	50.861	42.809	1.00	68.80	C
ATOM	11379	CB	LYS	C1072	64.078	50.615	42.732	1.00	100.07	C
ATOM	11380	CG	LYS	C1072	64.617	50.468	41.317	1.00	100.07	C
ATOM	11381	CD	LYS	C1072	66.130	50.277	41.319	1.00	100.07	C
ATOM	11382	CE	LYS	C1072	66.528	48.958	41.985	1.00	100.07	C
ATOM	11383	NZ	LYS	C1072	68.010	48.754	42.062	1.00	100.07	C
ATOM	11384	C	LYS	C1072	62.208	51.393	44.192	1.00	68.80	C
ATOM	11385	O	LYS	C1072	61.715	52.516	44.319	1.00	68.80	C
ATOM	11386	N	GLY	C1073	62.455	50.589	45.224	1.00	74.04	C

ATOM	11387	CA	GLY	C1073	62.156	51.019	46.578	1.00	74.04	C
ATOM	11388	C	GLY	C1073	63.291	51.838	47.156	1.00	74.04	C
ATOM	11389	O	GLY	C1073	63.435	51.942	48.372	1.00	74.04	C
ATOM	11390	N	GLU	C1074	64.090	52.426	46.268	1.00	65.07	C
ATOM	11391	CA	GLU	C1074	65.248	53.227	46.648	1.00	65.07	C
ATOM	11392	CB	GLU	C1074	66.412	52.896	45.717	1.00	98.80	C
ATOM	11393	CG	GLU	C1074	67.060	51.557	46.022	1.00	98.80	C
ATOM	11394	CD	GLU	C1074	67.422	50.775	44.777	1.00	98.80	C
ATOM	11395	OE1	GLU	C1074	67.954	51.379	43.820	1.00	98.80	C
ATOM	11396	OE2	GLU	C1074	67.185	49.548	44.759	1.00	98.80	C
ATOM	11397	C	GLU	C1074	65.006	54.732	46.668	1.00	65.07	C
ATOM	11398	O	GLU	C1074	64.226	55.263	45.876	1.00	65.07	C
ATOM	11399	N	ASP	C1075	65.696	55.412	47.580	1.00	31.63	C
ATOM	11400	CA	ASP	C1075	65.563	56.852	47.742	1.00	31.63	C
ATOM	11401	CB	ASP	C1075	65.923	57.250	49.166	1.00	51.36	C
ATOM	11402	CG	ASP	C1075	67.418	57.370	49.364	1.00	51.36	C
ATOM	11403	OD1	ASP	C1075	68.129	56.376	49.097	1.00	51.36	C
ATOM	11404	OD2	ASP	C1075	67.881	58.457	49.774	1.00	51.36	C
ATOM	11405	C	ASP	C1075	66.470	57.615	46.795	1.00	31.63	C
ATOM	11406	O	ASP	C1075	67.678	57.376	46.757	1.00	31.63	C
ATOM	11407	N	VAL	C1076	65.892	58.541	46.038	1.00	77.61	C
ATOM	11408	CA	VAL	C1076	66.679	59.344	45.109	1.00	77.61	C
ATOM	11409	CB	VAL	C1076	65.902	60.608	44.661	1.00	49.98	C
ATOM	11410	CG1	VAL	C1076	66.847	61.627	44.022	1.00	49.98	C
ATOM	11411	CG2	VAL	C1076	64.825	60.210	43.669	1.00	49.98	C
ATOM	11412	C	VAL	C1076	67.985	59.749	45.787	1.00	77.61	C
ATOM	11413	O	VAL	C1076	67.982	60.289	46.891	1.00	77.61	C
ATOM	11414	N	PRO	C1077	69.121	59.455	45.143	1.00	98.85	C
ATOM	11415	CD	PRO	C1077	69.220	58.474	44.048	1.00	88.18	C
ATOM	11416	CA	PRO	C1077	70.452	59.773	45.657	1.00	98.85	C
ATOM	11417	CB	PRO	C1077	71.275	58.605	45.154	1.00	88.18	C
ATOM	11418	CG	PRO	C1077	70.708	58.421	43.789	1.00	88.18	C
ATOM	11419	C	PRO	C1077	71.014	61.115	45.177	1.00	98.85	C
ATOM	11420	O	PRO	C1077	70.274	61.991	44.729	1.00	98.85	C
ATOM	11421	N	GLU	C1078	72.335	61.251	45.290	1.00	98.90	C
ATOM	11422	CA	GLU	C1078	73.071	62.445	44.875	1.00	98.90	C
ATOM	11423	CB	GLU	C1078	72.635	63.674	45.672	1.00	89.32	C
ATOM	11424	CG	GLU	C1078	73.706	64.767	45.709	1.00	89.32	C
ATOM	11425	CD	GLU	C1078	74.156	65.233	44.328	1.00	89.32	C
ATOM	11426	OE1	GLU	C1078	74.071	64.462	43.353	1.00	89.32	C
ATOM	11427	OE2	GLU	C1078	74.618	66.385	44.226	1.00	89.32	C
ATOM	11428	C	GLU	C1078	74.579	62.272	45.039	1.00	98.90	C
ATOM	11429	O	GLU	C1078	75.075	62.039	46.141	1.00	98.90	C
ATOM	11430	N	PRO	C1079	75.323	62.372	43.933	1.00	52.54	C
ATOM	11431	CD	PRO	C1079	74.759	62.060	42.601	1.00	100.07	C
ATOM	11432	CA	PRO	C1079	76.787	62.234	43.916	1.00	52.54	C
ATOM	11433	CB	PRO	C1079	77.010	61.283	42.756	1.00	100.07	C
ATOM	11434	CG	PRO	C1079	76.003	61.818	41.745	1.00	100.07	C
ATOM	11435	C	PRO	C1079	77.448	63.575	43.646	1.00	52.54	C
ATOM	11436	O	PRO	C1079	77.019	64.596	44.170	1.00	52.54	C
ATOM	11437	N	SER	C1080	78.489	63.565	42.818	1.00	66.25	C
ATOM	11438	CA	SER	C1080	79.153	64.807	42.451	1.00	66.25	C
ATOM	11439	CB	SER	C1080	80.380	64.553	41.584	1.00	80.40	C
ATOM	11440	OG	SER	C1080	80.894	65.782	41.093	1.00	80.40	C
ATOM	11441	C	SER	C1080	78.135	65.602	41.646	1.00	66.25	C
ATOM	11442	O	SER	C1080	76.945	65.277	41.658	1.00	66.25	C
ATOM	11443	N	VAL	C1081	78.586	66.625	40.927	1.00	23.51	C
ATOM	11444	CA	VAL	C1081	77.640	67.439	40.172	1.00	23.51	C
ATOM	11445	CB	VAL	C1081	77.078	68.589	41.033	1.00	100.04	C
ATOM	11446	CG1	VAL	C1081	75.938	69.253	40.301	1.00	100.04	C
ATOM	11447	CG2	VAL	C1081	76.613	68.070	42.390	1.00	100.04	C
ATOM	11448	C	VAL	C1081	78.157	68.049	38.882	1.00	23.51	C
ATOM	11449	O	VAL	C1081	79.067	68.883	38.874	1.00	23.51	C
ATOM	11450	N	PRO	C1082	77.525	67.673	37.772	1.00	57.24	C
ATOM	11451	CD	PRO	C1082	76.147	67.165	37.764	1.00	99.94	C
ATOM	11452	CA	PRO	C1082	77.885	68.154	36.443	1.00	57.24	C
ATOM	11453	CB	PRO	C1082	76.704	67.706	35.593	1.00	99.94	C
ATOM	11454	CG	PRO	C1082	75.575	67.835	36.547	1.00	99.94	C
ATOM	11455	C	PRO	C1082	78.026	69.657	36.472	1.00	57.24	C
ATOM	11456	O	PRO	C1082	78.852	70.224	35.760	1.00	57.24	C
ATOM	11457	N	GLU	C1083	77.205	70.298	37.300	1.00	42.40	C
ATOM	11458	CA	GLU	C1083	77.250	71.743	37.410	1.00	42.40	C
ATOM	11459	CB	GLU	C1083	76.488	72.207	38.642	1.00	100.07	C
ATOM	11460	CG	GLU	C1083	75.037	71.797	38.607	1.00	100.07	C
ATOM	11461	CD	GLU	C1083	74.296	72.411	37.447	1.00	100.07	C
ATOM	11462	OE1	GLU	C1083	74.960	72.882	36.500	1.00	100.07	C
ATOM	11463	OE2	GLU	C1083	73.047	72.414	37.480	1.00	100.07	C
ATOM	11464	C	GLU	C1083	78.705	72.104	37.520	1.00	42.40	C
ATOM	11465	O	GLU	C1083	79.150	73.070	36.909	1.00	42.40	C
ATOM	11466	N	SER	C1084	79.445	71.302	38.283	1.00	53.04	C
ATOM	11467	CA	SER	C1084	80.867	71.540	38.437	1.00	53.04	C
ATOM	11468	CB	SER	C1084	81.370	71.138	39.825	1.00	58.80	C
ATOM	11469	OG	SER	C1084	82.649	71.714	40.076	1.00	58.80	C
ATOM	11470	C	SER	C1084	81.609	70.753	37.374	1.00	53.04	C

ATOM	11471	O	SER	C1084	82.407	71.330	36.635	1.00	53.04	C
ATOM	11472	N	PHE	C1085	81.341	69.445	37.291	1.00	51.88	C
ATOM	11473	CA	PHE	C1085	81.991	68.597	36.294	1.00	51.88	C
ATOM	11474	CB	PHE	C1085	81.083	67.419	35.890	1.00	84.41	C
ATOM	11475	CG	PHE	C1085	81.210	66.179	36.767	1.00	84.41	C
ATOM	11476	CD1	PHE	C1085	81.989	66.173	37.921	1.00	84.41	C
ATOM	11477	CD2	PHE	C1085	80.531	65.003	36.425	1.00	84.41	C
ATOM	11478	CE1	PHE	C1085	82.093	65.017	38.715	1.00	84.41	C
ATOM	11479	CE2	PHE	C1085	80.631	63.845	37.216	1.00	84.41	C
ATOM	11480	CZ	PHE	C1085	81.411	63.857	38.358	1.00	84.41	C
ATOM	11481	C	PHE	C1085	82.243	69.480	35.071	1.00	51.88	C
ATOM	11482	O	PHE	C1085	83.388	69.670	34.662	1.00	51.88	C
ATOM	11483	N	ARG	C1086	81.167	70.055	34.527	1.00	54.45	C
ATOM	11484	CA	ARG	C1086	81.229	70.916	33.343	1.00	54.45	C
ATOM	11485	CB	ARG	C1086	79.822	71.280	32.861	1.00	76.54	C
ATOM	11486	CG	ARG	C1086	79.819	72.179	31.612	1.00	76.54	C
ATOM	11487	CD	ARG	C1086	78.552	73.040	31.477	1.00	76.54	C
ATOM	11488	NE	ARG	C1086	78.614	74.262	32.287	1.00	76.54	C
ATOM	11489	CZ	ARG	C1086	77.643	75.174	32.371	1.00	76.54	C
ATOM	11490	NH1	ARG	C1086	76.514	75.015	31.691	1.00	76.54	C
ATOM	11491	NH2	ARG	C1086	77.803	76.249	33.138	1.00	76.54	C
ATOM	11492	C	ARG	C1086	82.013	72.215	33.466	1.00	54.45	C
ATOM	11493	O	ARG	C1086	82.718	72.583	32.534	1.00	54.45	C
ATOM	11494	N	VAL	C1087	81.887	72.921	34.586	1.00	65.75	C
ATOM	11495	CA	VAL	C1087	82.589	74.195	34.726	1.00	65.75	C
ATOM	11496	CB	VAL	C1087	82.750	74.651	36.196	1.00	36.34	C
ATOM	11497	CG1	VAL	C1087	82.631	76.185	36.291	1.00	36.34	C
ATOM	11498	CG2	VAL	C1087	81.737	73.994	37.054	1.00	36.34	C
ATOM	11499	C	VAL	C1087	83.978	74.120	34.125	1.00	65.75	C
ATOM	11500	O	VAL	C1087	84.156	74.353	32.933	1.00	65.75	C
ATOM	11501	N	LEU	C1088	84.956	73.797	34.960	1.00	74.07	C
ATOM	11502	CA	LEU	C1088	86.346	73.700	34.540	1.00	74.07	C
ATOM	11503	CB	LEU	C1088	87.051	72.638	35.350	1.00	38.61	C
ATOM	11504	CG	LEU	C1088	86.196	72.103	36.479	1.00	38.61	C
ATOM	11505	CD1	LEU	C1088	86.871	70.878	37.098	1.00	38.61	C
ATOM	11506	CD2	LEU	C1088	85.981	73.212	37.498	1.00	38.61	C
ATOM	11507	C	LEU	C1088	86.525	73.357	33.074	1.00	74.07	C
ATOM	11508	O	LEU	C1088	87.253	74.031	32.349	1.00	74.07	C
ATOM	11509	N	VAL	C1089	85.867	72.292	32.638	1.00	39.99	C
ATOM	11510	CA	VAL	C1089	86.002	71.870	31.263	1.00	39.99	C
ATOM	11511	CB	VAL	C1089	85.228	70.581	31.022	1.00	29.96	C
ATOM	11512	CG1	VAL	C1089	85.238	70.251	29.554	1.00	29.96	C
ATOM	11513	CG2	VAL	C1089	85.873	69.438	31.826	1.00	29.96	C
ATOM	11514	C	VAL	C1089	85.574	72.960	30.298	1.00	39.99	C
ATOM	11515	O	VAL	C1089	85.983	72.965	29.147	1.00	39.99	C
ATOM	11516	N	LYS	C1090	84.756	73.893	30.760	1.00	33.87	C
ATOM	11517	CA	LYS	C1090	84.347	74.999	29.903	1.00	33.87	C
ATOM	11518	CB	LYS	C1090	82.952	75.500	30.276	1.00	53.31	C
ATOM	11519	CG	LYS	C1090	81.852	74.457	30.144	1.00	53.31	C
ATOM	11520	CD	LYS	C1090	80.478	75.101	30.093	1.00	53.31	C
ATOM	11521	CE	LYS	C1090	80.221	75.777	28.755	1.00	53.31	C
ATOM	11522	NZ	LYS	C1090	81.179	76.865	28.435	1.00	53.31	C
ATOM	11523	C	LYS	C1090	85.374	76.102	30.135	1.00	33.87	C
ATOM	11524	O	LYS	C1090	85.407	77.100	29.417	1.00	33.87	C
ATOM	11525	N	GLU	C1091	86.208	75.885	31.154	1.00	65.89	C
ATOM	11526	CA	GLU	C1091	87.287	76.791	31.560	1.00	65.89	C
ATOM	11527	CB	GLU	C1091	87.625	76.570	33.031	1.00	57.58	C
ATOM	11528	CG	GLU	C1091	86.593	77.100	33.978	1.00	57.58	C
ATOM	11529	CD	GLU	C1091	86.758	78.578	34.201	1.00	57.58	C
ATOM	11530	OE1	GLU	C1091	87.135	79.279	33.234	1.00	57.58	C
ATOM	11531	OE2	GLU	C1091	86.507	79.036	35.336	1.00	57.58	C
ATOM	11532	C	GLU	C1091	88.542	76.532	30.738	1.00	65.89	C
ATOM	11533	O	GLU	C1091	88.989	77.387	29.976	1.00	65.89	C
ATOM	11534	N	LEU	C1092	89.122	75.349	30.926	1.00	55.18	C
ATOM	11535	CA	LEU	C1092	90.312	74.968	30.184	1.00	55.18	C
ATOM	11536	CB	LEU	C1092	90.609	73.475	30.353	1.00	23.92	C
ATOM	11537	CG	LEU	C1092	89.821	72.609	31.339	1.00	23.92	C
ATOM	11538	CD1	LEU	C1092	90.415	71.199	31.352	1.00	23.92	C
ATOM	11539	CD2	LEU	C1092	89.873	73.218	32.725	1.00	23.92	C
ATOM	11540	C	LEU	C1092	89.970	75.253	28.739	1.00	55.18	C
ATOM	11541	O	LEU	C1092	90.822	75.627	27.940	1.00	55.18	C
ATOM	11542	N	GLN	C1093	88.694	75.064	28.427	1.00	33.59	C
ATOM	11543	CA	GLN	C1093	88.158	75.310	27.103	1.00	33.59	C
ATOM	11544	CB	GLN	C1093	86.637	75.319	27.172	1.00	100.07	C
ATOM	11545	CG	GLN	C1093	85.955	76.005	26.010	1.00	100.07	C
ATOM	11546	CD	GLN	C1093	84.457	76.056	26.193	1.00	100.07	C
ATOM	11547	OE1	GLN	C1093	83.962	76.508	27.229	1.00	100.07	C
ATOM	11548	NE2	GLN	C1093	83.723	75.589	25.189	1.00	100.07	C
ATOM	11549	C	GLN	C1093	88.671	76.668	26.661	1.00	33.59	C
ATOM	11550	O	GLN	C1093	88.684	77.007	25.470	1.00	33.59	C
ATOM	11551	N	ALA	C1094	89.053	77.453	27.656	1.00	49.86	C
ATOM	11552	CA	ALA	C1094	89.628	78.762	27.443	1.00	49.86	C
ATOM	11553	CB	ALA	C1094	88.832	79.817	28.182	1.00	56.04	C
ATOM	11554	C	ALA	C1094	90.999	78.562	28.073	1.00	49.86	C

ATOM	11639	N	ALA	C1108	95.063	66.303	46.893	1.00100.07	C
ATOM	11640	CA	ALA	C1108	94.362	65.827	45.707	1.00100.07	C
ATOM	11641	CB	ALA	C1108	93.883	64.396	45.932	1.00100.07	C
ATOM	11642	C	ALA	C1108	93.188	66.702	45.290	1.00100.07	C
ATOM	11643	O	ALA	C1108	92.782	67.628	46.001	1.00100.07	C
ATOM	11644	N	ALA	C1109	92.658	66.390	44.114	1.00 95.74	C
ATOM	11645	CA	ALA	C1109	91.520	67.098	43.551	1.00 95.74	C
ATOM	11646	CB	ALA	C1109	91.944	67.853	42.317	1.00 90.04	C
ATOM	11647	C	ALA	C1109	90.506	66.031	43.177	1.00 95.74	C
ATOM	11648	O	ALA	C1109	89.333	66.121	43.532	1.00 95.74	C
ATOM	11649	N	ALA	C1110	90.988	65.010	42.470	1.00100.07	C
ATOM	11650	CA	ALA	C1110	90.171	63.888	42.013	1.00100.07	C
ATOM	11651	CB	ALA	C1110	89.654	63.074	43.222	1.00 72.21	C
ATOM	11652	C	ALA	C1110	89.008	64.357	41.147	1.00100.07	C
ATOM	11653	O	ALA	C1110	87.851	64.031	41.423	1.00100.07	C
ATOM	11654	N	ILE	C1111	89.333	65.132	40.105	1.00100.07	C
ATOM	11655	CA	ILE	C1111	88.331	65.678	39.169	1.00100.07	C
ATOM	11656	CB	ILE	C1111	88.996	66.442	37.940	1.00100.07	C
ATOM	11657	CG2	ILE	C1111	87.946	67.297	37.213	1.00100.07	C
ATOM	11658	CG1	ILE	C1111	90.155	67.330	38.410	1.00100.07	C
ATOM	11659	CD	ILE	C1111	90.949	67.968	37.299	1.00100.07	C
ATOM	11660	C	ILE	C1111	87.570	64.471	38.622	1.00100.07	C
ATOM	11661	O	ILE	C1111	88.160	63.395	38.450	1.00100.07	C
ATOM	11662	N	PHE	C1112	86.276	64.648	38.365	1.00100.07	C
ATOM	11663	CA	PHE	C1112	85.413	63.593	37.829	1.00100.07	C
ATOM	11664	CB	PHE	C1112	84.486	64.207	36.787	1.00 99.62	C
ATOM	11665	CG	PHE	C1112	85.152	65.234	35.916	1.00 99.62	C
ATOM	11666	CD1	PHE	C1112	86.233	64.895	35.116	1.00 99.62	C
ATOM	11667	CD2	PHE	C1112	84.690	66.539	35.896	1.00 99.62	C
ATOM	11668	CE1	PHE	C1112	86.843	65.854	34.299	1.00 99.62	C
ATOM	11669	CE2	PHE	C1112	85.281	67.493	35.098	1.00 99.62	C
ATOM	11670	CZ	PHE	C1112	86.360	67.158	34.291	1.00 99.62	C
ATOM	11671	C	PHE	C1112	86.133	62.387	37.202	1.00100.07	C
ATOM	11672	O	PHE	C1112	87.233	62.521	36.679	1.00100.07	C
ATOM	11673	N	PHE	C1113	85.465	61.230	37.236	1.00100.07	C
ATOM	11674	CA	PHE	C1113	85.933	59.937	36.694	1.00100.07	C
ATOM	11675	CB	PHE	C1113	87.390	59.977	36.187	1.00100.07	C
ATOM	11676	CG	PHE	C1113	87.532	60.489	34.783	1.00100.07	C
ATOM	11677	CD1	PHE	C1113	88.194	61.694	34.537	1.00100.07	C
ATOM	11678	CD2	PHE	C1113	86.989	59.789	33.707	1.00100.07	C
ATOM	11679	CE1	PHE	C1113	88.312	62.211	33.237	1.00100.07	C
ATOM	11680	CE2	PHE	C1113	87.096	60.288	32.402	1.00100.07	C
ATOM	11681	CZ	PHE	C1113	87.765	61.509	32.168	1.00100.07	C
ATOM	11682	C	PHE	C1113	85.801	58.859	37.763	1.00100.07	C
ATOM	11683	O	PHE	C1113	86.836	58.479	38.346	1.00100.07	C
ATOM	11684	OT	PHE	C1113	84.656	58.427	38.019	1.00100.07	C
ATOM	11685	CB	ALA	D 4	87.384	60.671	46.589	1.00 22.94	D
ATOM	11686	C	ALA	D 4	86.770	62.048	48.624	1.00100.07	D
ATOM	11687	O	ALA	D 4	85.615	61.765	48.962	1.00100.07	D
ATOM	11688	N	ALA	D 4	87.611	59.692	48.852	1.00100.07	D
ATOM	11689	CA	ALA	D 4	87.709	60.959	48.069	1.00100.07	D
ATOM	11690	N	ALA	D 5	87.277	63.283	48.715	1.00100.07	D
ATOM	11691	CA	ALA	D 5	86.508	64.439	49.214	1.00100.07	D
ATOM	11692	CB	ALA	D 5	86.951	64.778	50.637	1.00 5.07	D
ATOM	11693	C	ALA	D 5	86.692	65.658	48.284	1.00100.07	D
ATOM	11694	O	ALA	D 5	86.857	65.478	47.078	1.00100.07	D
ATOM	11695	N	ALA	D 6	86.650	66.883	48.824	1.00 51.88	D
ATOM	11696	CA	ALA	D 6	86.839	68.090	47.994	1.00 51.88	D
ATOM	11697	CB	ALA	D 6	86.002	67.993	46.716	1.00 80.71	D
ATOM	11698	C	ALA	D 6	86.548	69.426	48.676	1.00 51.88	D
ATOM	11699	O	ALA	D 6	85.777	69.495	49.634	1.00 51.88	D
ATOM	11700	N	ALA	D 7	87.169	70.484	48.154	1.00 70.29	D
ATOM	11701	CA	ALA	D 7	87.014	71.857	48.658	1.00 70.29	D
ATOM	11702	CB	ALA	D 7	87.136	71.913	50.199	1.00 10.37	D
ATOM	11703	C	ALA	D 7	88.076	72.753	48.023	1.00 70.29	D
ATOM	11704	O	ALA	D 7	89.197	72.314	47.759	1.00 70.29	D
ATOM	11705	N	ALA	D 8	87.715	74.012	47.786	1.00 50.86	D
ATOM	11706	CA	ALA	D 8	88.611	74.987	47.166	1.00 50.86	D
ATOM	11707	CB	ALA	D 8	89.885	75.098	47.968	1.00 24.01	D
ATOM	11708	C	ALA	D 8	88.925	74.617	45.715	1.00 50.86	D
ATOM	11709	O	ALA	D 8	89.289	73.483	45.423	1.00 50.86	D
ATOM	11710	N	ALA	D 9	88.773	75.583	44.814	1.00 53.95	D
ATOM	11711	CA	ALA	D 9	89.027	75.375	43.394	1.00 53.95	D
ATOM	11712	CB	ALA	D 9	87.953	76.055	42.579	1.00 11.88	D
ATOM	11713	C	ALA	D 9	90.411	75.893	42.986	1.00 53.95	D
ATOM	11714	O	ALA	D 9	91.296	75.114	42.645	1.00 53.95	D
ATOM	11715	N	ALA	D 10	90.595	77.207	42.997	1.00 37.22	D
ATOM	11716	CA	ALA	D 10	91.894	77.800	42.660	1.00 37.22	D
ATOM	11717	CB	ALA	D 10	92.978	77.206	43.558	1.00 95.67	D
ATOM	11718	C	ALA	D 10	92.331	77.688	41.201	1.00 37.22	D
ATOM	11719	O	ALA	D 10	92.958	76.707	40.808	1.00 37.22	D
ATOM	11720	N	ALA	D 11	92.020	78.721	40.419	1.00 40.99	D
ATOM	11721	CA	ALA	D 11	92.378	78.776	39.007	1.00 40.99	D
ATOM	11722	CB	ALA	D 11	91.406	79.688	38.260	1.00100.07	D

ATOM	11723	C	ALA	D	11	93.806	79.293	38.842	1.00	40.99	D
ATOM	11724	O	ALA	D	11	94.491	79.615	39.820	1.00	40.99	D
ATOM	11725	N	ALA	D	12	94.247	79.380	37.594	1.00	56.28	D
ATOM	11726	CA	ALA	D	12	95.584	79.855	37.293	1.00	56.28	D
ATOM	11727	CB	ALA	D	12	96.607	79.036	38.049	1.00	100.07	D
ATOM	11728	C	ALA	D	12	95.794	79.708	35.804	1.00	56.28	D
ATOM	11729	O	ALA	D	12	94.852	79.385	35.086	1.00	56.28	D
ATOM	11730	N	ALA	D	13	97.026	79.935	35.344	1.00	84.89	D
ATOM	11731	CA	ALA	D	13	97.355	79.831	33.922	1.00	84.89	D
ATOM	11732	CB	ALA	D	13	98.469	80.804	33.568	1.00	17.96	D
ATOM	11733	C	ALA	D	13	97.749	78.414	33.514	1.00	84.89	D
ATOM	11734	O	ALA	D	13	98.235	77.625	34.329	1.00	84.89	D
ATOM	11735	N	ALA	D	14	97.532	78.102	32.239	1.00	100.07	D
ATOM	11736	CA	ALA	D	14	97.839	76.781	31.709	1.00	100.07	D
ATOM	11737	CB	ALA	D	14	96.572	75.941	31.673	1.00	45.15	D
ATOM	11738	C	ALA	D	14	98.447	76.861	30.314	1.00	100.07	D
ATOM	11739	O	ALA	D	14	97.862	77.458	29.408	1.00	100.07	D
ATOM	11740	N	ALA	D	15	99.617	76.250	30.141	1.00	72.38	D
ATOM	11741	CA	ALA	D	15	100.295	76.257	28.847	1.00	72.38	D
ATOM	11742	CB	ALA	D	15	101.630	76.978	28.956	1.00	83.66	D
ATOM	11743	C	ALA	D	15	100.513	74.842	28.334	1.00	72.38	D
ATOM	11744	O	ALA	D	15	100.406	73.873	29.098	1.00	72.38	D
ATOM	11745	N	ALA	D	16	100.829	74.750	27.039	1.00	60.85	D
ATOM	11746	CA	ALA	D	16	101.069	73.485	26.346	1.00	60.85	D
ATOM	11747	CB	ALA	D	16	102.241	73.622	25.412	1.00	31.86	D
ATOM	11748	C	ALA	D	16	101.304	72.332	27.305	1.00	60.85	D
ATOM	11749	O	ALA	D	16	100.345	71.748	27.805	1.00	60.85	D
ATOM	11750	N	ALA	D	17	102.574	72.016	27.556	1.00	100.07	D
ATOM	11751	CA	ALA	D	17	102.967	70.929	28.460	1.00	100.07	D
ATOM	11752	CB	ALA	D	17	103.967	71.451	29.496	1.00	100.07	D
ATOM	11753	C	ALA	D	17	101.781	70.253	29.162	1.00	100.07	D
ATOM	11754	O	ALA	D	17	101.555	69.051	28.995	1.00	100.07	D
ATOM	11755	N	ALA	D	18	101.030	71.023	29.948	1.00	99.82	D
ATOM	11756	CA	ALA	D	18	99.863	70.484	30.636	1.00	99.82	D
ATOM	11757	CB	ALA	D	18	99.522	71.328	31.869	1.00	52.21	D
ATOM	11758	C	ALA	D	18	98.690	70.479	29.664	1.00	99.82	D
ATOM	11759	O	ALA	D	18	98.154	69.423	29.342	1.00	99.82	D
ATOM	11760	N	ALA	D	19	98.311	71.662	29.185	1.00	36.78	D
ATOM	11761	CA	ALA	D	19	97.192	71.792	28.253	1.00	36.78	D
ATOM	11762	CB	ALA	D	19	97.191	73.185	27.605	1.00	30.74	D
ATOM	11763	C	ALA	D	19	97.221					

ATOM	11891	N	ALA	E	118	100.594	92.427	28.032	1.00	68.38	E
ATOM	11892	CA	ALA	E	118	101.361	93.552	27.540	1.00	68.38	E
ATOM	11893	CB	ALA	E	118	100.576	94.263	26.447	1.00	100.07	E
ATOM	11894	C	ALA	E	118	101.675	94.517	28.685	1.00	68.38	E
ATOM	11895	O	ALA	E	118	102.702	95.201	28.680	1.00	68.38	E
ATOM	11896	N	ALA	E	119	100.783	94.560	29.670	1.00	62.26	E
ATOM	11897	CA	ALA	E	119	100.939	95.444	30.822	1.00	62.26	E
ATOM	11898	CB	ALA	E	119	99.949	95.051	31.922	1.00	68.19	E
ATOM	11899	C	ALA	E	119	102.354	95.417	31.370	1.00	62.26	E
ATOM	11900	O	ALA	E	119	102.840	96.413	31.899	1.00	62.26	E
ATOM	11901	N	ALA	E	120	103.016	94.276	31.222	1.00	78.26	E
ATOM	11902	CA	ALA	E	120	104.367	94.114	31.732	1.00	78.26	E
ATOM	11903	CB	ALA	E	120	104.514	92.699	32.341	1.00	20.11	E
ATOM	11904	C	ALA	E	120	105.500	94.390	30.723	1.00	78.26	E
ATOM	11905	O	ALA	E	120	106.483	93.644	30.668	1.00	78.26	E
ATOM	11906	N	ALA	E	121	105.366	95.460	29.934	1.00	56.21	E
ATOM	11907	CA	ALA	E	121	106.393	95.845	28.950	1.00	56.21	E
ATOM	11908	CB	ALA	E	121	106.759	94.657	28.047	1.00	12.10	E
ATOM	11909	C	ALA	E	121	105.987	97.043	28.090	1.00	56.21	E
ATOM	11910	O	ALA	E	121	106.373	97.139	26.928	1.00	56.21	E
ATOM	11911	N	ALA	E	122	105.205	97.946	28.672	1.00	92.97	E
ATOM	11912	CA	ALA	E	122	104.751	99.158	27.994	1.00	92.97	E
ATOM	11913	CB	ALA	E	122	105.766	100.268	28.215	1.00	6.62	E
ATOM	11914	C	ALA	E	122	104.456	99.024	26.497	1.00	92.97	E
ATOM	11915	O	ALA	E	122	105.324	99.280	25.662	1.00	92.97	E
ATOM	11916	N	ALA	E	123	103.225	98.645	26.165	1.00	99.76	E
ATOM	11917	CA	ALA	E	123	102.811	98.493	24.772	1.00	99.76	E
ATOM	11918	CB	ALA	E	123	102.896	97.023	24.357	1.00	100.07	E
ATOM	11919	C	ALA	E	123	101.388	99.030	24.563	1.00	99.76	E
ATOM	11920	O	ALA	E	123	101.126	100.199	24.844	1.00	99.76	E
ATOM	11921	N	ALA	E	124	100.478	98.175	24.087	1.00	52.94	E
ATOM	11922	CA	ALA	E	124	99.084	98.555	23.824	1.00	52.94	E
ATOM	11923	CB	ALA	E	124	98.428	99.076	25.091	1.00	91.04	E
ATOM	11924	C	ALA	E	124	99.108	99.635	22.761	1.00	52.94	E
ATOM	11925	O	ALA	E	124	99.839	100.614	22.897	1.00	52.94	E
ATOM	11926	N	ALA	E	125	98.305	99.476	21.713	1.00	100.07	E
ATOM	11927	CA	ALA	E	125	98.305	100.432	20.603	1.00	100.07	E
ATOM	11928	CB	ALA	E	125	98.183	101.866	21.107	1.00	62.84	E
ATOM	11929	C	ALA	E	125	99.667	100.198	19.952	1.00	100.07	E
ATOM	11930	O	ALA	E	125	99.800	100.199	18.727	1.00	100.07	E
ATOM	11931	N	ALA	E	126	100.673	99.995	20.800	1.00	48.23	E
ATOM	11932	CA	ALA	E	126	102.023	99.682	20.367	1.00	48.23	E
ATOM	11933	CB	ALA	E	126	103.009	99.870	21.516	1.00	53.31	E
ATOM	11934	C	ALA	E	126	101.887	98.204	20.022	1.00	48.23	E
ATOM	11935	O	ALA	E	126	102.121	97.802	18.888	1.00	48.23	E
ATOM	11936	N	ALA	E	127	101.481	97.403	21.009	1.00	42.94	E
ATOM	11937	CA	ALA	E	127	101.272	95.969	20.807	1.00	42.94	E
ATOM	11938	CB	ALA	E	127	100.888	95.266	22.138	1.00	27.39	E
ATOM	11939	C	ALA	E	127	100.154	95.815	19.779	1.00	42.94	E
ATOM	11940	O	ALA	E	127	99.945	94.735	19.245	1.00	42.94	E
ATOM	11941	N	ALA	E	128	99.427	96.900	19.517	1.00	99.91	E
ATOM	11942	CA	ALA	E	128	98.366	96.866	18.514	1.00	99.91	E
ATOM	11943	CB	ALA	E	128	97.690	98.220	18.397	1.00	100.07	E
ATOM	11944	C	ALA	E	128	99.110	96.540	17.233	1.00	99.91	E
ATOM	11945	O	ALA	E	128	98.584	95.889	16.327	1.00	99.91	E
ATOM	11946	N	ALA	E	129	100.347	97.022	17.169	1.00	61.39	E
ATOM	11947	CA	ALA	E	129	101.213	96.739	16.043	1.00	61.39	E
ATOM	11948	CB	ALA	E	129	102.421	97.667	16.049	1.00	87.87	E
ATOM	11949	C	ALA	E	129	101.627	95.304	16.353	1.00	61.39	E
ATOM	11950	O	ALA	E	129	100.848	94.560	16.940	1.00	61.39	E
ATOM	11951	N	ALA	E	130	102.843	94.915	15.997	1.00	85.96	E
ATOM	11952	CA	ALA	E	130	103.290	93.549	16.252	1.00	85.96	E
ATOM	11953	CB	ALA	E	130	103.762	93.398	17.705	1.00	36.23	E
ATOM	11954	C	ALA	E	130	102.161	92.563	15.961	1.00	85.96	E
ATOM	11955	O	ALA	E	130	102.185	91.423	16.430	1.00	85.96	E
ATOM	11956	N	ALA	E	131	101.172	93.019	15.189	1.00	100.07	E
ATOM	11957	CA	ALA	E	131	100.021	92.202	14.807	1.00	100.07	E
ATOM	11958	CB	ALA	E	131	98.708	92.893	15.212	1.00	81.68	E
ATOM	11959	C	ALA	E	131	100.055	91.970	13.297	1.00	100.07	E
ATOM	11960	O	ALA	E	131	99.037	92.079	12.607	1.00	100.07	E
ATOM	11961	N	ALA	E	132	101.248	91.669	12.794	1.00	94.68	E
ATOM	11962	CA	ALA	E	132	101.441	91.396	11.383	1.00	94.68	E
ATOM	11963	CB	ALA	E	132	102.918	91.571	11.012	1.00	38.26	E
ATOM	11964	C	ALA	E	132	100.983	89.956	11.139	1.00	94.68	E
ATOM	11965	O	ALA	E	132	99.954	89.798	10.458	1.00	94.68	E
ATOM	11966	OT	ALA	E	132	101.624	89.004	11.646	1.00	38.26	E
ATOM	11967	CB	ALA	F	462	101.935	86.175	18.086	1.00	100.07	F
ATOM	11968	C	ALA	F	462	104.317	85.854	18.755	1.00	66.01	F
ATOM	11969	O	ALA	F	462	104.206	85.675	19.962	1.00	66.01	F
ATOM	11970	N	ALA	F	462	103.736	86.958	16.581	1.00	66.01	F
ATOM	11971	CA	ALA	F	462	103.342	86.757	18.011	1.00	66.01	F
ATOM	11972	N	ALA	F	463	105.267	85.278	18.030	1.00	79.79	F
ATOM	11973	CA	ALA	F	463	106.264	84.404	18.638	1.00	79.79	F
ATOM	11974	CB	ALA	F	463	107.036	83.652	17.554	1.00	100.07	F

ATOM	11975	C	ALA	F	463	107.220	85.260	19.458	1.00	79.79	F
ATOM	11976	O	ALA	F	463	107.693	84.852	20.519	1.00	79.79	F
ATOM	11977	N	ALA	F	464	107.509	86.449	18.940	1.00	51.07	F
ATOM	11978	CA	ALA	F	464	108.398	87.384	19.613	1.00	51.07	F
ATOM	11979	CB	ALA	F	464	108.716	88.548	18.697	1.00	100.07	F
ATOM	11980	C	ALA	F	464	107.662	87.869	20.842	1.00	51.07	F
ATOM	11981	O	ALA	F	464	108.170	87.781	21.962	1.00	51.07	F
ATOM	11982	N	ALA	F	465	106.454	88.378	20.614	1.00	100.07	F
ATOM	11983	CA	ALA	F	465	105.611	88.853	21.693	1.00	100.07	F
ATOM	11984	CB	ALA	F	465	104.187	88.961	21.219	1.00	35.10	F
ATOM	11985	C	ALA	F	465	105.737	87.777	22.756	1.00	100.07	F
ATOM	11986	O	ALA	F	465	105.584	88.035	23.953	1.00	100.07	F
ATOM	11987	N	ALA	F	466	106.031	86.564	22.288	1.00	63.24	F
ATOM	11988	CA	ALA	F	466	106.215	85.412	23.159	1.00	63.24	F
ATOM	11989	CB	ALA	F	466	105.942	84.090	22.385	1.00	14.05	F
ATOM	11990	C	ALA	F	466	107.650	85.446	23.655	1.00	63.24	F
ATOM	11991	O	ALA	F	466	107.916	85.791	24.808	1.00	63.24	F
ATOM	11992	N	ALA	F	467	108.567	85.099	22.759	1.00	99.18	F
ATOM	11993	CA	ALA	F	467	109.988	85.068	23.070	1.00	99.18	F
ATOM	11994	CB	ALA	F	467	110.804	85.146	21.784	1.00	35.14	F
ATOM	11995	C	ALA	F	467	110.342	86.218	23.993	1.00	99.18	F
ATOM	11996	O	ALA	F	467	110.957	86.021	25.036	1.00	99.18	F
ATOM	11997	N	ALA	F	468	109.935	87.420	23.610	1.00	62.05	F
ATOM	11998	CA	ALA	F	468	110.217	88.592	24.414	1.00	62.05	F
ATOM	11999	CB	ALA	F	468	109.595	89.838	23.757	1.00	54.99	F
ATOM	12000	C	ALA	F	468	109.672	88.383	25.837	1.00	62.05	F
ATOM	12001	O	ALA	F	468	110.357	88.669	26.833	1.00	62.05	F
ATOM	12002	N	ALA	F	469	108.452	87.860	25.932	1.00	51.19	F
ATOM	12003	CA	ALA	F	469	107.822	87.628	27.230	1.00	51.19	F
ATOM	12004	CB	ALA	F	469	106.313	87.377	27.046	1.00	14.58	F
ATOM	12005	C	ALA	F	469	108.490	86.466	27.973	1.00	51.19	F
ATOM	12006	O	ALA	F	469	108.425	86.365	29.196	1.00	51.19	F
ATOM	12007	N	ALA	F	470	109.145	85.590	27.231	1.00	74.88	F
ATOM	12008	CA	ALA	F	470	109.827	84.472	27.860	1.00	74.88	F
ATOM	12009	CB	ALA	F	470	109.917	83.297	26.881	1.00	88.67	F
ATOM	12010	C	ALA	F	470	111.229	84.938	28.265	1.00	74.88	F
ATOM	12011	O	ALA	F	470	111.863	84.371	29.161	1.00	74.88	F
ATOM	12012	N	ALA	F	471	111.697	85.988	27.596	1.00	100.07	F
ATOM	12013	CA	ALA	F	471	113.027	86.540	27.840	1.00	100.07	F
ATOM	12014	CB	ALA	F	471	113.468	87.377	26.643	1.00	100.07	

ATOM	12059	CB	ALA	F	480	115.445	94.405	42.382	1.00100.07	F
ATOM	12060	C	ALA	F	480	114.032	96.271	41.542	1.00 71.00	F
ATOM	12061	O	ALA	F	480	114.008	97.349	42.137	1.00 71.00	F
ATOM	12062	N	ALA	F	481	114.062	96.157	40.219	1.00 77.09	F
ATOM	12063	CA	ALA	F	481	114.051	97.319	39.348	1.00 77.09	F
ATOM	12064	CB	ALA	F	481	113.916	96.883	37.891	1.00 38.68	F
ATOM	12065	C	ALA	F	481	112.860	98.168	39.745	1.00 77.09	F
ATOM	12066	O	ALA	F	481	112.998	99.237	40.340	1.00 77.09	F
ATOM	12067	N	ALA	F	482	111.679	97.676	39.407	1.00 95.03	F
ATOM	12068	CA	ALA	F	482	110.464	98.383	39.739	1.00 95.03	F
ATOM	12069	CB	ALA	F	482	109.252	97.496	39.459	1.00 67.50	F
ATOM	12070	C	ALA	F	482	110.536	98.758	41.218	1.00 95.03	F
ATOM	12071	O	ALA	F	482	110.268	99.905	41.582	1.00 95.03	F
ATOM	12072	N	ALA	F	483	110.923	97.793	42.057	1.00 95.33	F
ATOM	12073	CA	ALA	F	483	111.034	98.008	43.502	1.00 95.33	F
ATOM	12074	CB	ALA	F	483	112.016	97.022	44.110	1.00100.07	F
ATOM	12075	C	ALA	F	483	111.502	99.427	43.746	1.00 95.33	F
ATOM	12076	O	ALA	F	483	110.882	100.177	44.500	1.00 95.33	F
ATOM	12077	N	ALA	F	484	112.601	99.788	43.092	1.00100.07	F
ATOM	12078	CA	ALA	F	484	113.149	101.133	43.197	1.00100.07	F
ATOM	12079	CB	ALA	F	484	114.645	101.127	42.851	1.00100.07	F
ATOM	12080	C	ALA	F	484	112.369	102.014	42.217	1.00100.07	F
ATOM	12081	O	ALA	F	484	112.854	102.363	41.136	1.00100.07	F
ATOM	12082	N	ALA	F	485	111.141	102.348	42.601	1.00100.07	F
ATOM	12083	CA	ALA	F	485	110.276	103.178	41.778	1.00100.07	F
ATOM	12084	CB	ALA	F	485	108.819	102.865	42.090	1.00 29.66	F
ATOM	12085	C	ALA	F	485	110.576	104.655	42.036	1.00100.07	F
ATOM	12086	O	ALA	F	485	110.049	105.531	41.345	1.00100.07	F
ATOM	12087	N	ALA	F	486	111.432	104.908	43.032	1.00100.07	F
ATOM	12088	CA	ALA	F	486	111.859	106.256	43.445	1.00100.07	F
ATOM	12089	CB	ALA	F	486	113.081	106.731	42.593	1.00 11.16	F
ATOM	12090	C	ALA	F	486	110.746	107.304	43.401	1.00100.07	F
ATOM	12091	O	ALA	F	486	109.569	106.985	43.595	1.00100.07	F
ATOM	12092	N	ALA	F	487	111.131	108.556	43.157	1.00100.07	F
ATOM	12093	CA	ALA	F	487	110.181	109.661	43.089	1.00100.07	F
ATOM	12094	CB	ALA	F	487	110.515	110.708	44.135	1.00 10.05	F
ATOM	12095	C	ALA	F	487	110.168	110.303	41.711	1.00100.07	F
ATOM	12096	O	ALA	F	487	111.107	110.147	40.924	1.00100.07	F
ATOM	12097	N	ALA	F	488	109.089	111.031	41.440	1.00 97.36	F
ATOM	12098	CA	ALA	F	488	108.885	111.722	40.172	1.00 97.36	F
ATOM	12099	CB	ALA	F	488	109.311	110.832	38.994	1.00 78.09	F
ATOM	12100	C	ALA	F	488	107.403	112.063	40.065	1.00 97.36	F
ATOM	12101	O	ALA	F	488	106.673	112.024	41.058	1.00 97.36	F
ATOM	12102	N	ALA	F	489	106.961	112.393	38.857	1.00100.07	F
ATOM	12103	CA	ALA	F	489	105.565	112.739	38.624	1.00100.07	F
ATOM	12104	CB	ALA	F	489	105.379	113.231	37.182	1.00 95.80	F
ATOM	12105	C	ALA	F	489	104.660	111.540	38.897	1.00100.07	F
ATOM	12106	O	ALA	F	489	104.450	111.156	40.051	1.00100.07	F
ATOM	12107	N	ALA	F	490	104.132	110.956	37.824	1.00 99.59	F
ATOM	12108	CA	ALA	F	490	103.245	109.804	37.921	1.00 99.59	F
ATOM	12109	CB	ALA	F	490	102.754	109.404	36.533	1.00 77.92	F
ATOM	12110	C	ALA	F	490	103.924	108.618	38.594	1.00 99.59	F
ATOM	12111	O	ALA	F	490	105.022	108.203	38.206	1.00 99.59	F
ATOM	12112	N	ALA	F	491	103.256	108.079	39.606	1.00 63.35	F
ATOM	12113	CA	ALA	F	491	103.771	106.941	40.344	1.00 63.35	F
ATOM	12114	CB	ALA	F	491	102.876	106.653	41.520	1.00 33.73	F
ATOM	12115	C	ALA	F	491	103.838	105.730	39.429	1.00 63.35	F
ATOM	12116	O	ALA	F	491	104.916	105.190	39.189	1.00 63.35	F
ATOM	12117	N	ALA	F	492	102.681	105.319	38.915	1.00 80.27	F
ATOM	12118	CA	ALA	F	492	102.594	104.167	38.024	1.00 80.27	F
ATOM	12119	CB	ALA	F	492	102.730	104.622	36.575	1.00 21.41	F
ATOM	12120	C	ALA	F	492	103.699	103.175	38.382	1.00 80.27	F
ATOM	12121	O	ALA	F	492	103.795	102.743	39.532	1.00 80.27	F
ATOM	12122	N	ALA	F	493	104.535	102.843	37.399	1.00100.07	F
ATOM	12123	CA	ALA	F	493	105.661	101.913	37.562	1.00100.07	F
ATOM	12124	CB	ALA	F	493	106.925	102.683	37.933	1.00100.07	F
ATOM	12125	C	ALA	F	493	105.408	100.812	38.583	1.00100.07	F
ATOM	12126	O	ALA	F	493	105.175	99.660	38.215	1.00100.07	F
ATOM	12127	N	ALA	F	494	105.481	101.167	39.864	1.00 72.51	F
ATOM	12128	CA	ALA	F	494	105.235	100.213	40.935	1.00 72.51	F
ATOM	12129	CB	ALA	F	494	105.018	100.952	42.260	1.00 52.38	F
ATOM	12130	C	ALA	F	494	103.982	99.439	40.544	1.00 72.51	F
ATOM	12131	O	ALA	F	494	103.901	98.227	40.734	1.00 72.51	F
ATOM	12132	N	ALA	F	495	103.020	100.162	39.972	1.00100.07	F
ATOM	12133	CA	ALA	F	495	101.753	99.588	39.526	1.00100.07	F
ATOM	12134	CB	ALA	F	495	101.020	100.581	38.631	1.00100.07	F
ATOM	12135	C	ALA	F	495	101.969	98.271	38.787	1.00100.07	F
ATOM	12136	O	ALA	F	495	101.095	97.404	38.769	1.00100.07	F
ATOM	12137	N	ALA	F	496	103.128	98.124	38.162	1.00 57.26	F
ATOM	12138	CA	ALA	F	496	103.420	96.888	37.465	1.00 57.26	F
ATOM	12139	CB	ALA	F	496	104.776	96.976	36.759	1.00 29.06	F
ATOM	12140	C	ALA	F	496	103.449	95.817	38.552	1.00 57.26	F
ATOM	12141	O	ALA	F	496	102.747	94.811	38.471	1.00 57.26	F
ATOM	12142	N	ALA	F	497	104.240	96.067	39.589	1.00 61.78	F

ATOM	12143	CA	ALA	F	497	104.390	95.130	40.698	1.00	61.78	F
ATOM	12144	CB	ALA	F	497	104.901	95.870	41.949	1.00	61.71	F
ATOM	12145	C	ALA	F	497	103.123	94.339	41.030	1.00	61.78	F
ATOM	12146	O	ALA	F	497	103.196	93.159	41.371	1.00	61.78	F
ATOM	12147	N	ALA	F	498	101.965	94.980	40.934	1.00	99.94	F
ATOM	12148	CA	ALA	F	498	100.718	94.289	41.232	1.00	99.94	F
ATOM	12149	CB	ALA	F	498	99.528	95.205	40.978	1.00	100.07	F
ATOM	12150	C	ALA	F	498	100.632	93.046	40.357	1.00	99.94	F
ATOM	12151	O	ALA	F	498	100.442	91.936	40.862	1.00	99.94	F
ATOM	12152	N	ALA	F	499	100.780	93.237	39.046	1.00	100.07	F
ATOM	12153	CA	ALA	F	499	100.740	92.124	38.100	1.00	100.07	F
ATOM	12154	CB	ALA	F	499	100.733	92.655	36.651	1.00	24.68	F
ATOM	12155	C	ALA	F	499	101.964	91.233	38.340	1.00	100.07	F
ATOM	12156	O	ALA	F	499	101.839	90.017	38.524	1.00	100.07	F
ATOM	12157	N	ALA	F	500	103.141	91.859	38.363	1.00	82.45	F
ATOM	12158	CA	ALA	F	500	104.408	91.158	38.571	1.00	82.45	F
ATOM	12159	CB	ALA	F	500	105.574	92.167	38.544	1.00	19.29	F
ATOM	12160	C	ALA	F	500	104.445	90.339	39.865	1.00	82.45	F
ATOM	12161	O	ALA	F	500	104.820	89.168	39.852	1.00	82.45	F
ATOM	12162	N	ALA	F	501	104.061	90.959	40.977	1.00	82.14	F
ATOM	12163	CA	ALA	F	501	104.054	90.284	42.273	1.00	82.14	F
ATOM	12164	CB	ALA	F	501	103.426	91.181	43.321	1.00	18.50	F
ATOM	12165	C	ALA	F	501	103.280	88.975	42.180	1.00	82.14	F
ATOM	12166	O	ALA	F	501	103.835	87.891	42.368	1.00	82.14	F
ATOM	12167	N	ALA	F	502	101.988	89.087	41.896	1.00	91.70	F
ATOM	12168	CA	ALA	F	502	101.144	87.913	41.762	1.00	91.70	F
ATOM	12169	CB	ALA	F	502	99.784	88.312	41.206	1.00	100.07	F
ATOM	12170	C	ALA	F	502	101.858	86.986	40.797	1.00	91.70	F
ATOM	12171	O	ALA	F	502	101.969	85.782	41.025	1.00	91.70	F
ATOM	12172	N	ALA	F	503	102.355	87.571	39.716	1.00	98.19	F
ATOM	12173	CA	ALA	F	503	103.064	86.805	38.711	1.00	98.19	F
ATOM	12174	CB	ALA	F	503	103.558	87.726	37.604	1.00	14.32	F
ATOM	12175	C	ALA	F	503	104.230	86.080	39.369	1.00	98.19	F
ATOM	12176	O	ALA	F	503	104.156	84.871	39.611	1.00	98.19	F
ATOM	12177	N	ALA	F	504	105.295	86.824	39.673	1.00	100.07	F
ATOM	12178	CA	ALA	F	504	106.486	86.256	40.304	1.00	100.07	F
ATOM	12179	CB	ALA	F	504	107.430	87.401	40.829	1.00	5.07	F
ATOM	12180	C	ALA	F	504	106.070	85.307	41.438	1.00	100.07	F
ATOM	12181	O	ALA	F	504	106.858	84.473	41.894	1.00	100.07	F
ATOM	12182	N	ALA	F	505	104.816	85.430	41.868	1.00	98.28	F
ATOM	12183	CA	ALA	F	505	104.276	84.589	42.924	1.00	98.28	F
ATOM	12184	CB	ALA	F	505	103.045	85.238	43.518	1.00	32.21	F
ATOM	12185	C	ALA	F	505	103.926	83.220	42.354	1.00	98.28	F
ATOM	12186	O	ALA	F	505	104.463	82.201	42.794	1.00	98.28	F
ATOM	12187	N	GLY	F	506	103.028	83.200	41.372	1.00	64.41	F
ATOM	12188	CA	GLY	F	506	102.632	81.946	40.756	1.00	64.41	F
ATOM	12189	C	GLY	F	506	102.075	82.191	39.370	1.00	64.41	F
ATOM	12190	O	GLY	F	506	100.863	82.299	39.216	1.00	64.41	F
ATOM	12191	N	ALA	F	507	102.952	82.280	38.366	1.00	100.07	F
ATOM	12192	CA	ALA	F	507	102.537	82.530	36.975	1.00	100.07	F
ATOM	12193	CB	ALA	F	507	102.296	84.033	36.769	1.00	100.07	F
ATOM	12194	C	ALA	F	507	103.522	82.019	35.907	1.00	100.07	F
ATOM	12195	O	ALA	F	507	103.974	80.875	35.966	1.00	100.07	F
ATOM	12196	N	ALA	F	508	103.820	82.889	34.935	1.00	78.66	F
ATOM	12197	CA	ALA	F	508	104.733	82.643	33.805	1.00	78.66	F
ATOM	12198	CB	ALA	F	508	104.817	81.156	33.471	1.00	8.77	F
ATOM	12199	C	ALA	F	508	104.190	83.400	32.595	1.00	78.66	F
ATOM	12200	O	ALA	F	508	103.188	84.098	32.700	1.00	78.66	F
ATOM	12201	N	PRO	F	509	104.867	83.303	31.441	1.00	37.13	F
ATOM	12202	CD	PRO	F	509	106.278	82.889	31.292	1.00	100.07	F
ATOM	12203	CA	PRO	F	509	104.416	83.979	30.221	1.00	37.13	F
ATOM	12204	CB	PRO	F	509	105.706	84.545	29.663	1.00	100.07	F
ATOM	12205	CG	PRO	F	509	106.642	83.385	29.874	1.00	100.07	F
ATOM	12206	C	PRO	F	509	103.860	82.849	29.340	1.00	37.13	F
ATOM	12207	O	PRO	F	509	104.193	82.729	28.153	1.00	37.13	F
ATOM	12208	N	GLU	F	510	103.048	81.996	29.968	1.00	99.79	F
ATOM	12209	CA	GLU	F	510	102.416	80.848	29.320	1.00	99.79	F
ATOM	12210	CB	GLU	F	510	102.211	79.729	30.347	1.00	60.32	F
ATOM	12211	CG	GLU	F	510	103.496	79.265	31.021	1.00	60.32	F
ATOM	12212	CD	GLU	F	510	103.286	78.189	32.093	1.00	60.32	F
ATOM	12213	OE1	GLU	F	510	102.708	77.115	31.789	1.00	60.32	F
ATOM	12214	OE2	GLU	F	510	103.719	78.416	33.248	1.00	60.32	F
ATOM	12215	C	GLU	F	510	101.070	81.266	28.729	1.00	99.79	F
ATOM	12216	O	GLU	F	510	100.292	80.439	28.256	1.00	99.79	F
ATOM	12217	N	TRP	F	511	100.807	82.564	28.769	1.00	37.61	F
ATOM	12218	CA	TRP	F	511	99.581	83.118	28.248	1.00	37.61	F
ATOM	12219	CB	TRP	F	511	98.986	84.108	29.249	1.00	99.43	F
ATOM	12220	CG	TRP	F	511	99.942	85.166	29.700	1.00	99.43	F
ATOM	12221	CD2	TRP	F	511	99.611	86.427	30.293	1.00	99.43	F
ATOM	12222	CE2	TRP	F	511	100.824	87.048	30.660	1.00	99.43	F
ATOM	12223	CE3	TRP	F	511	98.407	87.090	30.555	1.00	99.43	F
ATOM	12224	CD1	TRP	F	511	101.303	85.082	29.724	1.00	99.43	F
ATOM	12225	NE1	TRP	F	511	101.842	86.206	30.300	1.00	99.43	F
ATOM	12226	CZ2	TRP	F	511	100.869	88.302	31.279	1.00	99.43	F

ATOM	12227	CZ3	TRP	F	511	98.454	88.339	31.173	1.00	99.43	F
ATOM	12228	CH2	TRP	F	511	99.678	88.928	31.527	1.00	99.43	F
ATOM	12229	C	TRP	F	511	99.856	83.815	26.938	1.00	37.61	F
ATOM	12230	O	TRP	F	511	99.749	85.024	26.845	1.00	37.61	F
ATOM	12231	N	MET	F	512	100.246	83.044	25.936	1.00	34.52	F
ATOM	12232	CA	MET	F	512	100.501	83.558	24.596	1.00	34.52	F
ATOM	12233	CB	MET	F	512	101.934	84.073	24.470	1.00	100.07	F
ATOM	12234	CG	MET	F	512	102.083	85.472	25.067	1.00	100.07	F
ATOM	12235	SD	MET	F	512	103.768	86.097	25.387	1.00	100.07	F
ATOM	12236	CE	MET	F	512	104.123	85.297	26.972	1.00	100.07	F
ATOM	12237	C	MET	F	512	100.242	82.360	23.699	1.00	34.52	F
ATOM	12238	O	MET	F	512	100.638	82.324	22.542	1.00	34.52	F
ATOM	12239	N	ALA	F	513	99.536	81.399	24.300	1.00	99.70	F
ATOM	12240	CA	ALA	F	513	99.099	80.114	23.737	1.00	99.70	F
ATOM	12241	CB	ALA	F	513	97.557	80.056	23.722	1.00	47.92	F
ATOM	12242	C	ALA	F	513	99.621	79.622	22.394	1.00	99.70	F
ATOM	12243	O	ALA	F	513	99.696	80.364	21.415	1.00	99.70	F
ATOM	12244	N	ALA	F	514	99.953	78.333	22.377	1.00	55.02	F
ATOM	12245	CA	ALA	F	514	100.442	77.631	21.197	1.00	55.02	F
ATOM	12246	CB	ALA	F	514	101.959	77.489	21.244	1.00	57.22	F
ATOM	12247	C	ALA	F	514	99.789	76.258	21.254	1.00	55.02	F
ATOM	12248	O	ALA	F	514	100.477	75.237	21.237	1.00	55.02	F
ATOM	12249	N	ALA	F	515	98.459	76.255	21.349	1.00	100.07	F
ATOM	12250	CA	ALA	F	515	97.653	75.035	21.426	1.00	100.07	F
ATOM	12251	CB	ALA	F	515	98.305	74.023	22.378	1.00	70.16	F
ATOM	12252	C	ALA	F	515	96.233	75.354	21.908	1.00	100.07	F
ATOM	12253	O	ALA	F	515	95.969	75.373	23.115	1.00	100.07	F
ATOM	12254	N	ALA	F	516	95.324	75.599	20.966	1.00	58.93	F
ATOM	12255	CA	ALA	F	516	93.936	75.912	21.300	1.00	58.93	F
ATOM	12256	CB	ALA	F	516	93.247	76.589	20.101	1.00	5.07	F
ATOM	12257	C	ALA	F	516	93.171	74.652	21.729	1.00	58.93	F
ATOM	12258	O	ALA	F	516	93.619	73.525	21.490	1.00	58.93	F
ATOM	12259	N	VAL	F	517	92.014	74.841	22.361	1.00	44.96	F
ATOM	12260	CA	VAL	F	517	91.231	73.709	22.834	1.00	44.96	F
ATOM	12261	CB	VAL	F	517	91.518	73.456	24.331	1.00	100.07	F
ATOM	12262	CG1	VAL	F	517	91.438	71.971	24.626	1.00	100.07	F
ATOM	12263	CG2	VAL	F	517	92.875	74.024	24.716	1.00	100.07	F
ATOM	12264	C	VAL	F	517	89.697	73.777	22.667	1.00	44.96	F
ATOM	12265	O	VAL	F	517	89.036	74.713	23.134	1.00	44.96	F
ATOM	12266	N	PRO	F	518	89.118	72.797	21.959	1.00	66.62	F
ATOM	12267	CD	PRO	F	518	89.811	72.091	20.868	1.00	100.07	F
ATOM	12268	CA	PRO	F	518	87.666	72.745	21.757	1.00	66.62	F
ATOM	12269	CB	PRO	F	518	87.539	72.294	20.306	1.00	100.07	F
ATOM	12270	CG	PRO	F	518	88.672	71.392	20.146	1.00	100.07	F
ATOM	12271	C	PRO	F	518	87.105	71.719	22.748	1.00	66.62	F
ATOM	12272	O	PRO	F	518	87.635	70.611	22.859	1.00	66.62	F
ATOM	12273	N	VAL	F	519	86.052	72.078	23.475	1.00	19.90	F
ATOM	12274	CA	VAL	F	519	85.485	71.153	24.460	1.00	19.90	F
ATOM	12275	CB	VAL	F	519	84.279	71.779	25.175	1.00	65.64	F
ATOM	12276	CG1	VAL	F	519	83.784	70.851	26.269	1.00	65.64	F
ATOM	12277	CG2	VAL	F	519	84.660	73.104	25.744	1.00	65.64	F
ATOM	12278	C	VAL	F	519	85.028	69.842	23.823	1.00	19.90	F
ATOM	12279	O	VAL	F	519	84.744	69.812	22.617	1.00	19.90	F
ATOM	12280	N	LEU	F	520	84.961	68.772	24.624	1.00	49.79	F
ATOM	12281	CA	LEU	F	520	84.498	67.481	24.118	1.00	49.79	F
ATOM	12282	CB	LEU	F	520	84.374	66.454	25.243	1.00	100.07	F
ATOM	12283	CG	LEU	F	520	84.087	65.035	24.730	1.00	100.07	F
ATOM	12284	CD1	LEU	F	520	85.405	64.439	24.244	1.00	100.07	F
ATOM	12285	CD2	LEU	F	520	83.461	64.145	25.811	1.00	100.07	F
ATOM	12286	C	LEU	F	520	83.116	67.803	23.575	1.00	49.79	F
ATOM	12287	O	LEU	F	520	82.388	68.561	24.195	1.00	49.79	F
ATOM	12288	N	PRO	F	521	82.723	67.229	22.428	1.00	35.08	F
ATOM	12289	CD	PRO	F	521	83.381	66.123	21.719	1.00	93.02	F
ATOM	12290	CA	PRO	F	521	81.408	67.507	21.836	1.00	35.08	F
ATOM	12291	CB	PRO	F	521	81.305	66.466	20.719	1.00	93.02	F
ATOM	12292	CG	PRO	F	521	82.201	65.370	21.180	1.00	93.02	F
ATOM	12293	C	PRO	F	521	80.137	67.566	22.710	1.00	35.08	F
ATOM	12294	O	PRO	F	521	79.319	68.480	22.543	1.00	35.08	F
ATOM	12295	N	PRO	F	522	79.950	66.613	23.653	1.00	99.94	F
ATOM	12296	CD	PRO	F	522	80.867	65.541	24.089	1.00	100.07	F
ATOM	12297	CA	PRO	F	522	78.747	66.635	24.503	1.00	99.94	F
ATOM	12298	CB	PRO	F	522	78.891	65.364	25.340	1.00	100.07	F
ATOM	12299	CG	PRO	F	522	80.370	65.234	25.496	1.00	100.07	F
ATOM	12300	C	PRO	F	522	78.613	67.892	25.364	1.00	99.94	F
ATOM	12301	O	PRO	F	522	78.099	67.846	26.482	1.00	99.94	F
ATOM	12302	N	ASP	F	523	79.079	69.009	24.820	1.00	78.45	F
ATOM	12303	CA	ASP	F	523	79.038	70.299	25.485	1.00	78.45	F
ATOM	12304	CB	ASP	F	523	80.421	70.661	26.004	1.00	97.06	F
ATOM	12305	CG	ASP	F	523	80.428	71.963	26.745	1.00	97.06	F
ATOM	12306	OD1	ASP	F	523	79.881	72.948	26.210	1.00	97.06	F
ATOM	12307	OD2	ASP	F	523	80.983	72.003	27.860	1.00	97.06	F
ATOM	12308	C	ASP	F	523	78.577	71.347	24.475	1.00	78.45	F
ATOM	12309	O	ASP	F	523	77.781	72.230	24.852	1.00	78.45	F
ATOM	12310	OT	ASP	F	523	79.029	71.280	23.315	1.00	97.06	F

ATOM	12311	CB	ALA	G	535	72.510	75.095	18.383	1.00100.07	G
ATOM	12312	C	ALA	G	535	73.810	75.656	20.434	1.00100.07	G
ATOM	12313	O	ALA	G	535	74.091	76.725	20.985	1.00100.07	G
ATOM	12314	N	ALA	G	535	71.558	76.614	20.076	1.00100.07	G
ATOM	12315	CA	ALA	G	535	72.415	75.409	19.874	1.00100.07	G
ATOM	12316	N	ALA	G	536	74.672	74.651	20.322	1.00100.07	G
ATOM	12317	CA	ALA	G	536	76.054	74.798	20.757	1.00100.07	G
ATOM	12318	CB	ALA	G	536	76.562	73.506	21.400	1.00 75.75	G
ATOM	12319	C	ALA	G	536	76.746	75.050	19.422	1.00100.07	G
ATOM	12320	O	ALA	G	536	77.817	75.655	19.355	1.00100.07	G
ATOM	12321	N	THR	G	537	76.067	74.595	18.367	1.00 73.01	G
ATOM	12322	CA	THR	G	537	76.497	74.706	16.977	1.00 73.01	G
ATOM	12323	CB	THR	G	537	75.266	74.720	16.022	1.00100.07	G
ATOM	12324	OG1	THR	G	537	74.459	73.557	16.248	1.00100.07	G
ATOM	12325	CG2	THR	G	537	75.712	74.724	14.573	1.00100.07	G
ATOM	12326	C	THR	G	537	77.328	75.954	16.708	1.00 73.01	G
ATOM	12327	O	THR	G	537	78.401	75.874	16.101	1.00 73.01	G
ATOM	12328	N	SER	G	538	76.828	77.100	17.167	1.00 70.80	G
ATOM	12329	CA	SER	G	538	77.498	78.388	16.968	1.00 70.80	G
ATOM	12330	CB	SER	G	538	76.739	79.496	17.715	1.00 70.37	G
ATOM	12331	OG	SER	G	538	77.174	80.789	17.315	1.00 70.37	G
ATOM	12332	C	SER	G	538	78.977	78.415	17.375	1.00 70.80	G
ATOM	12333	O	SER	G	538	79.708	79.334	17.016	1.00 70.80	G
ATOM	12334	N	ASP	G	539	79.421	77.412	18.119	1.00 80.36	G
ATOM	12335	CA	ASP	G	539	80.812	77.361	18.554	1.00 80.36	G
ATOM	12336	CB	ASP	G	539	80.876	76.982	20.042	1.00 79.91	G
ATOM	12337	CG	ASP	G	539	82.293	77.005	20.600	1.00 79.91	G
ATOM	12338	OD1	ASP	G	539	82.833	78.102	20.864	1.00 79.91	G
ATOM	12339	OD2	ASP	G	539	82.869	75.916	20.770	1.00 79.91	G
ATOM	12340	C	ASP	G	539	81.600	76.349	17.725	1.00 80.36	G
ATOM	12341	O	ASP	G	539	82.824	76.292	17.801	1.00 80.36	G
ATOM	12342	N	LEU	G	540	80.886	75.556	16.932	1.00 47.23	G
ATOM	12343	CA	LEU	G	540	81.496	74.526	16.095	1.00 47.23	G
ATOM	12344	CB	LEU	G	540	80.603	73.286	16.041	1.00 72.45	G
ATOM	12345	CG	LEU	G	540	80.626	72.347	17.243	1.00 72.45	G
ATOM	12346	CD1	LEU	G	540	79.481	71.350	17.146	1.00 72.45	G
ATOM	12347	CD2	LEU	G	540	81.972	71.637	17.295	1.00 72.45	G
ATOM	12348	C	LEU	G	540	81.717	75.024	14.686	1.00 47.23	G
ATOM	12349	O	LEU	G	540	82.824	75.432	14.326	1.00 47.23	G
ATOM	12350	N	ASN	G	541	80.654	74.987	13.887	1.00 80.65	G
ATOM	12351	CA	ASN	G	541	80.752	75.438	12.514	1.00 80.65	G
ATOM	12352	CB	ASN	G	541	79.379	75.551	11.860	1.0	

ATOM	12395	C	ARG	G	545	86.428	76.548	10.839	1.00	90.26	G
ATOM	12396	O	ARG	G	545	87.469	76.342	10.219	1.00	90.26	G
ATOM	12397	N	ARG	G	546	86.002	77.762	11.175	1.00	66.99	G
ATOM	12398	CA	ARG	G	546	86.701	78.979	10.789	1.00	66.99	G
ATOM	12399	CB	ARG	G	546	86.083	80.172	11.515	1.00	100.07	G
ATOM	12400	CG	ARG	G	546	84.731	80.627	10.984	1.00	100.07	G
ATOM	12401	CD	ARG	G	546	84.886	81.547	9.777	1.00	100.07	G
ATOM	12402	NE	ARG	G	546	83.664	82.306	9.512	1.00	100.07	G
ATOM	12403	CZ	ARG	G	546	83.526	83.185	8.522	1.00	100.07	G
ATOM	12404	NH1	ARG	G	546	84.539	83.418	7.699	1.00	100.07	G
ATOM	12405	NH2	ARG	G	546	82.377	83.830	8.352	1.00	100.07	G
ATOM	12406	C	ARG	G	546	88.191	78.937	11.103	1.00	66.99	G
ATOM	12407	O	ARG	G	546	89.002	79.482	10.351	1.00	66.99	G
ATOM	12408	N	LEU	G	547	88.534	78.292	12.217	1.00	99.98	G
ATOM	12409	CA	LEU	G	547	89.919	78.187	12.681	1.00	99.98	G
ATOM	12410	CB	LEU	G	547	89.953	78.026	14.203	1.00	77.26	G
ATOM	12411	CG	LEU	G	547	91.316	78.113	14.900	1.00	77.26	G
ATOM	12412	CD1	LEU	G	547	91.485	79.512	15.477	1.00	77.26	G
ATOM	12413	CD2	LEU	G	547	91.412	77.077	16.010	1.00	77.26	G
ATOM	12414	C	LEU	G	547	90.736	77.055	12.066	1.00	99.98	G
ATOM	12415	O	LEU	G	547	91.610	77.294	11.231	1.00	99.98	G
ATOM	12416	N	ILE	G	548	90.462	75.825	12.496	1.00	84.49	G
ATOM	12417	CA	ILE	G	548	91.194	74.661	12.006	1.00	84.49	G
ATOM	12418	CB	ILE	G	548	90.434	73.355	12.298	1.00	26.57	G
ATOM	12419	CG2	ILE	G	548	91.328	72.167	12.013	1.00	26.57	G
ATOM	12420	CG1	ILE	G	548	90.011	73.320	13.767	1.00	26.57	G
ATOM	12421	CD	ILE	G	548	91.153	73.574	14.758	1.00	26.57	G
ATOM	12422	C	ILE	G	548	91.521	74.727	10.515	1.00	84.49	G
ATOM	12423	O	ILE	G	548	92.536	74.185	10.077	1.00	84.49	G
ATOM	12424	N	ASN	G	549	90.668	75.386	9.736	1.00	100.07	G
ATOM	12425	CA	ASN	G	549	90.927	75.522	8.308	1.00	100.07	G
ATOM	12426	CB	ASN	G	549	89.700	76.076	7.565	1.00	85.42	G
ATOM	12427	CG	ASN	G	549	88.679	74.993	7.217	1.00	85.42	G
ATOM	12428	OD1	ASN	G	549	88.947	73.795	7.352	1.00	85.42	G
ATOM	12429	ND2	ASN	G	549	87.507	75.416	6.753	1.00	85.42	G
ATOM	12430	C	ASN	G	549	92.121	76.453	8.104	1.00	100.07	G
ATOM	12431	O	ASN	G	549	93.116	76.065	7.496	1.00	100.07	G
ATOM	12432	N	ARG	G	550	92.027	77.677	8.613	1.00	63.37	G
ATOM	12433	CA	ARG	G	550	93.127	78.621	8.468	1.00	63.37	G
ATOM	12434	CB	ARG	G	550	92.911	79.869	9.326	1.00	100.07	G
ATOM	12435	CG	ARG	G	550	91.732	80.726	8.911	1.00	100.07	G
ATOM	12436	CD	ARG	G	550	91.814	81.103	7.445	1.00	100.07	G
ATOM	12437	NE	ARG	G	550	90.710	81.968	7.039	1.00	100.07	G
ATOM	12438	CZ	ARG	G	550	90.463	82.319	5.780	1.00	100.07	G
ATOM	12439	NH1	ARG	G	550	91.246	81.876	4.805	1.00	100.07	G
ATOM	12440	NH2	ARG	G	550	89.430	83.104	5.492	1.00	100.07	G
ATOM	12441	C	ARG	G	550	94.422	77.957	8.886	1.00	63.37	G
ATOM	12442	O	ARG	G	550	95.391	77.956	8.129	1.00	63.37	G
ATOM	12443	N	ASN	G	551	94.437	77.388	10.090	1.00	54.49	G
ATOM	12444	CA	ASN	G	551	95.636	76.732	10.585	1.00	54.49	G
ATOM	12445	CB	ASN	G	551	95.339	75.907	11.837	1.00	56.03	G
ATOM	12446	CG	ASN	G	551	96.611	75.448	12.554	1.00	56.03	G
ATOM	12447	OD1	ASN	G	551	97.074	74.321	12.379	1.00	56.03	G
ATOM	12448	ND2	ASN	G	551	97.184	76.334	13.356	1.00	56.03	G
ATOM	12449	C	ASN	G	551	96.162	75.834	9.484	1.00	54.49	G
ATOM	12450	O	ASN	G	551	97.361	75.583	9.393	1.00	54.49	G
ATOM	12451	N	ASN	G	552	95.264	75.354	8.634	1.00	61.89	G
ATOM	12452	CA	ASN	G	552	95.683	74.503	7.535	1.00	61.89	G
ATOM	12453	CB	ASN	G	552	94.642	73.406	7.268	1.00	71.57	G
ATOM	12454	CG	ASN	G	552	94.599	72.354	8.384	1.00	71.57	G
ATOM	12455	OD1	ASN	G	552	95.641	71.842	8.816	1.00	71.57	G
ATOM	12456	ND2	ASN	G	552	93.392	72.024	8.846	1.00	71.57	G
ATOM	12457	C	ASN	G	552	95.943	75.347	6.296	1.00	61.89	G
ATOM	12458	O	ASN	G	552	96.691	74.945	5.410	1.00	61.89	G
ATOM	12459	N	ARG	G	553	95.328	76.524	6.243	1.00	97.47	G
ATOM	12460	CA	ARG	G	553	95.532	77.442	5.130	1.00	97.47	G
ATOM	12461	CB	ARG	G	553	94.731	78.726	5.336	1.00	100.07	G
ATOM	12462	CG	ARG	G	553	95.118	79.874	4.400	1.00	100.07	G
ATOM	12463	CD	ARG	G	553	94.516	79.730	2.996	1.00	100.07	G
ATOM	12464	NE	ARG	G	553	94.684	80.953	2.202	1.00	100.07	G
ATOM	12465	CZ	ARG	G	553	94.022	81.221	1.077	1.00	100.07	G
ATOM	12466	NH1	ARG	G	553	93.139	80.351	0.599	1.00	100.07	G
ATOM	12467	NH2	ARG	G	553	94.232	82.369	0.438	1.00	100.07	G
ATOM	12468	C	ARG	G	553	97.015	77.772	5.141	1.00	97.47	G
ATOM	12469	O	ARG	G	553	97.572	78.249	4.152	1.00	97.47	G
ATOM	12470	N	LEU	G	554	97.644	77.526	6.284	1.00	69.85	G
ATOM	12471	CA	LEU	G	554	99.071	77.772	6.446	1.00	69.85	G
ATOM	12472	CB	LEU	G	554	99.330	78.679	7.654	1.00	92.56	G
ATOM	12473	CG	LEU	G	554	98.524	79.982	7.705	1.00	92.56	G
ATOM	12474	CD1	LEU	G	554	99.053	80.839	8.847	1.00	92.56	G
ATOM	12475	CD2	LEU	G	554	98.621	80.731	6.380	1.00	92.56	G
ATOM	12476	C	LEU	G	554	99.741	76.424	6.649	1.00	69.85	G
ATOM	12477	O	LEU	G	554	100.948	76.276	6.493	1.00	69.85	G
ATOM	12478	N	LYS	G	555	98.930	75.435	6.993	1.00	100.07	G

ATOM	12479	CA	LYS	G	555	99.422	74.090	7.211	1.00100.07	G
ATOM	12480	CB	LYS	G	555	98.340	73.270	7.920	1.00100.07	G
ATOM	12481	CG	LYS	G	555	98.785	71.950	8.481	1.00100.07	G
ATOM	12482	CD	LYS	G	555	99.760	72.144	9.615	1.00100.07	G
ATOM	12483	CE	LYS	G	555	100.189	70.804	10.163	1.00100.07	G
ATOM	12484	NZ	LYS	G	555	101.195	70.971	11.227	1.00100.07	G
ATOM	12485	C	LYS	G	555	99.766	73.468	5.851	1.00100.07	G
ATOM	12486	O	LYS	G	555	100.197	72.310	5.781	1.00100.07	G
ATOM	12487	N	LYS	G	556	99.576	74.243	4.777	1.00 67.24	G
ATOM	12488	CA	LYS	G	556	99.856	73.782	3.407	1.00 67.24	G
ATOM	12489	CB	LYS	G	556	98.622	73.118	2.790	1.00100.07	G
ATOM	12490	CG	LYS	G	556	98.145	71.875	3.514	1.00100.07	G
ATOM	12491	CD	LYS	G	556	96.753	71.496	3.047	1.00100.07	G
ATOM	12492	CE	LYS	G	556	96.102	70.495	3.990	1.00100.07	G
ATOM	12493	NZ	LYS	G	556	94.667	70.261	3.637	1.00100.07	G
ATOM	12494	C	LYS	G	556	100.293	74.913	2.492	1.00 67.24	G
ATOM	12495	O	LYS	G	556	100.072	74.861	1.285	1.00 67.24	G
ATOM	12496	N	LEU	G	557	100.890	75.944	3.074	1.00 68.19	G
ATOM	12497	CA	LEU	G	557	101.382	77.089	2.315	1.00 68.19	G
ATOM	12498	CB	LEU	G	557	100.421	78.275	2.423	1.00 44.98	G
ATOM	12499	CG	LEU	G	557	100.486	79.376	1.356	1.00 44.98	G
ATOM	12500	CD1	LEU	G	557	99.658	80.547	1.850	1.00 44.98	G
ATOM	12501	CD2	LEU	G	557	101.913	79.833	1.074	1.00 44.98	G
ATOM	12502	C	LEU	G	557	102.689	77.424	3.005	1.00 68.19	G
ATOM	12503	O	LEU	G	557	103.102	78.580	3.080	1.00 68.19	G
ATOM	12504	N	LEU	G	558	103.317	76.386	3.540	1.00 96.46	G
ATOM	12505	CA	LEU	G	558	104.572	76.542	4.245	1.00 96.46	G
ATOM	12506	CB	LEU	G	558	104.320	76.748	5.740	1.00 99.58	G
ATOM	12507	CG	LEU	G	558	103.493	77.982	6.124	1.00 99.58	G
ATOM	12508	CD1	LEU	G	558	103.404	78.042	7.637	1.00 99.58	G
ATOM	12509	CD2	LEU	G	558	104.118	79.263	5.573	1.00 99.58	G
ATOM	12510	C	LEU	G	558	105.440	75.323	4.009	1.00 96.46	G
ATOM	12511	O	LEU	G	558	106.664	75.435	3.947	1.00 96.46	G
ATOM	12512	N	ALA	G	559	104.824	74.151	3.894	1.00 99.94	G
ATOM	12513	CA	ALA	G	559	105.618	72.971	3.596	1.00 99.94	G
ATOM	12514	CB	ALA	G	559	104.801	71.690	3.766	1.00 27.45	G
ATOM	12515	C	ALA	G	559	105.958	73.229	2.125	1.00 99.94	G
ATOM	12516	O	ALA	G	559	106.787	72.535	1.525	1.00 99.94	G
ATOM	12517	N	GLN	G	560	105.299	74.257	1.569	1.00100.07	G
ATOM	12518	CA	GLN	G	560	105.504	74.711	0.188	1.00100.07	G
ATOM	12519	CB	GLN	G	560	104.169	74.957	-0.538	1.00 92.79	G
ATOM	12520	CG	GLN	G	560	104.093	76.3			

ATOM	12563	CG1	ILE	G	566	99.919	86.204	-0.712	1.00	96.39	G
ATOM	12564	CD	ILE	G	566	98.630	86.663	-0.042	1.00	96.39	G
ATOM	12565	C	ILE	G	566	101.403	84.513	2.452	1.00	100.07	G
ATOM	12566	O	ILE	G	566	101.402	83.324	2.119	1.00	100.07	G
ATOM	12567	N	ILE	G	567	101.705	84.938	3.675	1.00	97.69	G
ATOM	12568	CA	ILE	G	567	102.050	84.093	4.815	1.00	97.69	G
ATOM	12569	CB	ILE	G	567	103.515	83.605	4.759	1.00	60.58	G
ATOM	12570	CG2	ILE	G	567	103.941	83.066	6.111	1.00	60.58	G
ATOM	12571	CG1	ILE	G	567	103.670	82.534	3.689	1.00	60.58	G
ATOM	12572	CD	ILE	G	567	105.087	82.344	3.278	1.00	60.58	G
ATOM	12573	C	ILE	G	567	101.926	85.091	5.947	1.00	97.69	G
ATOM	12574	O	ILE	G	567	101.336	84.810	6.980	1.00	97.69	G
ATOM	12575	N	ARG	G	568	102.501	86.269	5.726	1.00	100.07	G
ATOM	12576	CA	ARG	G	568	102.435	87.347	6.700	1.00	100.07	G
ATOM	12577	CB	ARG	G	568	103.088	88.635	6.172	1.00	100.07	G
ATOM	12578	CG	ARG	G	568	104.444	88.988	6.776	1.00	100.07	G
ATOM	12579	CD	ARG	G	568	104.879	90.378	6.346	1.00	100.07	G
ATOM	12580	NE	ARG	G	568	106.333	90.492	6.304	1.00	100.07	G
ATOM	12581	CZ	ARG	G	568	106.988	91.553	5.841	1.00	100.07	G
ATOM	12582	NH1	ARG	G	568	106.322	92.605	5.381	1.00	100.07	G
ATOM	12583	NH2	ARG	G	568	108.314	91.559	5.819	1.00	100.07	G
ATOM	12584	C	ARG	G	568	100.960	87.608	6.877	1.00	100.07	G
ATOM	12585	O	ARG	G	568	100.307	86.994	7.721	1.00	100.07	G
ATOM	12586	N	ASN	G	569	100.437	88.508	6.049	1.00	100.07	G
ATOM	12587	CA	ASN	G	569	99.036	88.870	6.118	1.00	100.07	G
ATOM	12588	CB	ASN	G	569	98.723	89.966	5.101	1.00	69.10	G
ATOM	12589	CG	ASN	G	569	98.361	89.417	3.759	1.00	69.10	G
ATOM	12590	OD1	ASN	G	569	99.066	88.577	3.210	1.00	69.10	G
ATOM	12591	ND2	ASN	G	569	97.254	89.890	3.211	1.00	69.10	G
ATOM	12592	C	ASN	G	569	98.159	87.645	5.886	1.00	100.07	G
ATOM	12593	O	ASN	G	569	96.951	87.693	6.122	1.00	100.07	G
ATOM	12594	N	GLU	G	570	98.768	86.548	5.432	1.00	58.80	G
ATOM	12595	CA	GLU	G	570	98.029	85.307	5.209	1.00	58.80	G
ATOM	12596	CB	GLU	G	570	98.686	84.478	4.108	1.00	99.33	G
ATOM	12597	CG	GLU	G	570	98.009	84.644	2.754	1.00	99.33	G
ATOM	12598	CD	GLU	G	570	96.751	83.805	2.623	1.00	99.33	G
ATOM	12599	OE1	GLU	G	570	95.973	83.751	3.599	1.00	99.33	G
ATOM	12600	OE2	GLU	G	570	96.539	83.207	1.543	1.00	99.33	G
ATOM	12601	C	GLU	G	570	97.949	84.502	6.503	1.00	58.80	G
ATOM	12602	O	GLU	G	570	97.381	83.411	6.534	1.00	58.80	G
ATOM	12603	N	LYS	G	571	98.536	85.060	7.563	1.00	100.07	G
ATOM	12604	CA	LYS	G	571	98.534	84.467	8.903	1.00	100.07	G
ATOM	12605	CB	LYS	G	571	99.955	84.321	9.463	1.00	99.54	G
ATOM	12606	CG	LYS	G	571	99.999	83.812	10.899	1.00	99.54	G
ATOM	12607	CD	LYS	G	571	101.396	83.904	11.500	1.00	99.54	G
ATOM	12608	CE	LYS	G	571	101.358	83.672	13.014	1.00	99.54	G
ATOM	12609	NZ	LYS	G	571	102.687	83.790	13.692	1.00	99.54	G
ATOM	12610	C	LYS	G	571	97.771	85.453	9.761	1.00	100.07	G
ATOM	12611	O	LYS	G	571	97.320	85.129	10.859	1.00	100.07	G
ATOM	12612	N	ARG	G	572	97.658	86.675	9.249	1.00	69.60	G
ATOM	12613	CA	ARG	G	572	96.922	87.717	9.933	1.00	69.60	G
ATOM	12614	CB	ARG	G	572	96.559	88.849	8.974	1.00	99.49	G
ATOM	12615	CG	ARG	G	572	95.402	89.698	9.487	1.00	99.49	G
ATOM	12616	CD	ARG	G	572	94.596	90.375	8.370	1.00	99.49	G
ATOM	12617	NE	ARG	G	572	93.357	90.966	8.888	1.00	99.49	G
ATOM	12618	CZ	ARG	G	572	92.505	91.698	8.174	1.00	99.49	G
ATOM	12619	NH1	ARG	G	572	92.741	91.949	6.893	1.00	99.49	G
ATOM	12620	NH2	ARG	G	572	91.411	92.181	8.745	1.00	99.49	G
ATOM	12621	C	ARG	G	572	95.644	87.034	10.361	1.00	69.60	G
ATOM	12622	O	ARG	G	572	95.180	87.188	11.495	1.00	69.60	G
ATOM	12623	N	MET	G	573	95.091	86.265	9.426	1.00	100.07	G
ATOM	12624	CA	MET	G	573	93.855	85.535	9.645	1.00	100.07	G
ATOM	12625	CB	MET	G	573	93.361	84.937	8.321	1.00	100.07	G
ATOM	12626	CG	MET	G	573	94.473	84.422	7.425	1.00	100.07	G
ATOM	12627	SD	MET	G	573	93.965	83.087	6.310	1.00	100.07	G
ATOM	12628	CE	MET	G	573	94.860	81.678	7.053	1.00	100.07	G
ATOM	12629	C	MET	G	573	93.918	84.443	10.722	1.00	100.07	G
ATOM	12630	O	MET	G	573	92.951	84.277	11.468	1.00	100.07	G
ATOM	12631	N	LEU	G	574	95.027	83.707	10.828	1.00	92.74	G
ATOM	12632	CA	LEU	G	574	95.091	82.650	11.840	1.00	92.74	G
ATOM	12633	CB	LEU	G	574	96.466	81.996	11.927	1.00	61.13	G
ATOM	12634	CG	LEU	G	574	96.448	81.011	13.106	1.00	61.13	G
ATOM	12635	CD1	LEU	G	574	95.320	80.038	12.928	1.00	61.13	G
ATOM	12636	CD2	LEU	G	574	97.731	80.264	13.193	1.00	61.13	G
ATOM	12637	C	LEU	G	574	94.733	83.152	13.222	1.00	92.74	G
ATOM	12638	O	LEU	G	574	93.666	82.831	13.746	1.00	92.74	G
ATOM	12639	N	GLN	G	575	95.636	83.918	13.827	1.00	100.07	G
ATOM	12640	CA	GLN	G	575	95.364	84.459	15.151	1.00	100.07	G
ATOM	12641	CB	GLN	G	575	96.471	85.414	15.598	1.00	98.80	G
ATOM	12642	CG	GLN	G	575	96.193	86.034	16.945	1.00	98.80	G
ATOM	12643	CD	GLN	G	575	97.410	86.057	17.823	1.00	98.80	G
ATOM	12644	OE1	GLN	G	575	98.116	85.063	17.937	1.00	98.80	G
ATOM	12645	NE2	GLN	G	575	97.659	87.184	18.464	1.00	98.80	G
ATOM	12646	C	GLN	G	575	94.038	85.205	15.094	1.00	100.07	G

ATOM	12647	O	GLN	G	575	93.219	85.100	16.011	1.00100.07	G
ATOM	12648	N	GLU	G	576	93.834	85.956	14.009	1.00 53.26	G
ATOM	12649	CA	GLU	G	576	92.600	86.694	13.831	1.00 53.26	G
ATOM	12650	CB	GLU	G	576	92.437	87.116	12.372	1.00 89.35	G
ATOM	12651	CG	GLU	G	576	91.068	87.670	12.025	1.00 89.35	G
ATOM	12652	CD	GLU	G	576	90.582	88.707	13.019	1.00 89.35	G
ATOM	12653	OE1	GLU	G	576	91.385	89.602	13.368	1.00 89.35	G
ATOM	12654	OE2	GLU	G	576	89.399	88.630	13.443	1.00 89.35	G
ATOM	12655	C	GLU	G	576	91.520	85.711	14.241	1.00 53.26	G
ATOM	12656	O	GLU	G	576	90.693	85.998	15.104	1.00 53.26	G
ATOM	12657	N	ALA	G	577	91.559	84.527	13.651	1.00 83.08	G
ATOM	12658	CA	ALA	G	577	90.586	83.509	13.984	1.00 83.08	G
ATOM	12659	CB	ALA	G	577	90.836	82.258	13.163	1.00 89.31	G
ATOM	12660	C	ALA	G	577	90.649	83.184	15.477	1.00 83.08	G
ATOM	12661	O	ALA	G	577	89.638	83.281	16.168	1.00 83.08	G
ATOM	12662	N	VAL	G	578	91.831	82.820	15.980	1.00 49.06	G
ATOM	12663	CA	VAL	G	578	91.979	82.460	17.396	1.00 49.06	G
ATOM	12664	CB	VAL	G	578	93.428	82.178	17.762	1.00 94.26	G
ATOM	12665	CG1	VAL	G	578	93.482	81.450	19.106	1.00 94.26	G
ATOM	12666	CG2	VAL	G	578	94.087	81.373	16.660	1.00 94.26	G
ATOM	12667	C	VAL	G	578	91.468	83.528	18.350	1.00 49.06	G
ATOM	12668	O	VAL	G	578	90.684	83.244	19.263	1.00 49.06	G
ATOM	12669	N	ASP	G	579	91.942	84.753	18.159	1.00 68.63	G
ATOM	12670	CA	ASP	G	579	91.483	85.843	18.993	1.00 68.63	G
ATOM	12671	CB	ASP	G	579	92.306	87.110	18.765	1.00100.07	G
ATOM	12672	CG	ASP	G	579	93.656	87.057	19.457	1.00100.07	G
ATOM	12673	OD1	ASP	G	579	93.702	86.659	20.649	1.00100.07	G
ATOM	12674	OD2	ASP	G	579	94.664	87.422	18.810	1.00100.07	G
ATOM	12675	C	ASP	G	579	90.058	86.056	18.547	1.00 68.63	G
ATOM	12676	O	ASP	G	579	89.722	87.088	17.955	1.00 68.63	G
ATOM	12677	N	ALA	G	580	89.244	85.037	18.818	1.00 74.70	G
ATOM	12678	CA	ALA	G	580	87.834	85.019	18.475	1.00 74.70	G
ATOM	12679	CB	ALA	G	580	87.660	84.922	16.968	1.00 87.10	G
ATOM	12680	C	ALA	G	580	87.188	83.826	19.162	1.00 74.70	G
ATOM	12681	O	ALA	G	580	86.262	83.990	19.956	1.00 74.70	G
ATOM	12682	N	VAL	G	581	87.680	82.627	18.859	1.00 85.22	G
ATOM	12683	CA	VAL	G	581	87.150	81.414	19.475	1.00 85.22	G
ATOM	12684	CB	VAL	G	581	88.129	80.242	19.364	1.00 54.15	G
ATOM	12685	CG1	VAL	G	581	87.590	79.034	20.093	1.00 54.15	G
ATOM	12686	CG2	VAL	G	581	88.348	79.903	17.925	1.00 54.15	G
ATOM	12687	C	VAL	G	581	86.960	81.724	20.941	1.00 85.22	G
ATOM	12688	O	VAL	G	581	86.075	81.183	21.601	1.00 85.22	G
ATOM	12689	N	ILE	G	582	87.813	82.609	21.439	1.00 66.09	G
ATOM	12690	CA	ILE	G	582	87.750	83.036	22.820	1.00 66.09	G
ATOM	12691	CB	ILE	G	582	89.108	83.595	23.265	1.00 99.33	G
ATOM	12692	CG2	ILE	G	582	89.185	83.647	24.779	1.00 99.33	G
ATOM	12693	CG1	ILE	G	582	90.220	82.681	22.747	1.00 99.33	G
ATOM	12694	CD	ILE	G	582	91.611	83.202	22.993	1.00 99.33	G
ATOM	12695	C	ILE	G	582	86.670	84.113	22.884	1.00 66.09	G
ATOM	12696	O	ILE	G	582	85.622	83.985	22.248	1.00 66.09	G
ATOM	12697	N	ASP	G	583	86.922	85.178	23.629	1.00100.07	G
ATOM	12698	CA	ASP	G	583	85.936	86.238	23.760	1.00100.07	G
ATOM	12699	CB	ASP	G	583	86.386	87.247	24.813	1.00 83.18	G
ATOM	12700	CG	ASP	G	583	86.599	86.601	26.153	1.00 83.18	G
ATOM	12701	OD1	ASP	G	583	85.704	85.824	26.545	1.00 83.18	G
ATOM	12702	OD2	ASP	G	583	87.642	86.858	26.803	1.00 83.18	G
ATOM	12703	C	ASP	G	583	85.618	86.949	22.460	1.00100.07	G
ATOM	12704	O	ASP	G	583	85.399	88.158	22.457	1.00100.07	G
ATOM	12705	N	ASN	G	584	85.603	86.185	21.370	1.00 30.51	G
ATOM	12706	CA	ASN	G	584	85.278	86.683	20.041	1.00 30.51	G
ATOM	12707	CB	ASN	G	584	84.303	85.708	19.391	1.00 69.42	G
ATOM	12708	CG	ASN	G	584	84.042	86.020	17.943	1.00 69.42	G
ATOM	12709	OD1	ASN	G	584	83.782	87.167	17.576	1.00 69.42	G
ATOM	12710	ND2	ASN	G	584	84.095	84.993	17.104	1.00 69.42	G
ATOM	12711	C	ASN	G	584	84.633	88.068	20.099	1.00 30.51	G
ATOM	12712	O	ASN	G	584	83.430	88.203	19.863	1.00 30.51	G
ATOM	12713	N	GLY	G	585	85.425	89.097	20.396	1.00100.07	G
ATOM	12714	CA	GLY	G	585	84.870	90.437	20.510	1.00100.07	G
ATOM	12715	C	GLY	G	585	85.441	91.513	19.609	1.00100.07	G
ATOM	12716	O	GLY	G	585	86.646	91.556	19.369	1.00100.07	G
ATOM	12717	N	ARG	G	586	84.558	92.389	19.126	1.00100.07	G
ATOM	12718	CA	ARG	G	586	84.910	93.499	18.235	1.00100.07	G
ATOM	12719	CB	ARG	G	586	86.133	94.256	18.779	1.00 99.49	G
ATOM	12720	CG	ARG	G	586	85.906	94.938	20.145	1.00 99.49	G
ATOM	12721	CD	ARG	G	586	87.091	95.843	20.536	1.00 99.49	G
ATOM	12722	NE	ARG	G	586	86.937	96.473	21.851	1.00 99.49	G
ATOM	12723	CZ	ARG	G	586	87.779	97.373	22.358	1.00 99.49	G
ATOM	12724	NH1	ARG	G	586	88.848	97.764	21.672	1.00 99.49	G
ATOM	12725	NH2	ARG	G	586	87.546	97.891	23.555	1.00 99.49	G
ATOM	12726	C	ARG	G	586	85.144	93.044	16.782	1.00100.07	G
ATOM	12727	O	ARG	G	586	85.863	92.077	16.526	1.00100.07	G
ATOM	12728	N	ARG	G	587	84.538	93.770	15.842	1.00 78.77	G
ATOM	12729	CA	ARG	G	587	84.601	93.455	14.418	1.00 78.77	G
ATOM	12730	CB	ARG	G	587	86.039	93.249	13.931	1.00100.07	G

ATOM	12815	N	PRO	G	599	76.155	87.703	15.007	1.00	67.92	G
ATOM	12816	CD	PRO	G	599	75.980	88.937	15.790	1.00	56.78	G
ATOM	12817	CA	PRO	G	599	77.428	87.058	15.353	1.00	67.92	G
ATOM	12818	CB	PRO	G	599	78.015	87.999	16.407	1.00	56.78	G
ATOM	12819	CG	PRO	G	599	76.804	88.645	17.004	1.00	56.78	G
ATOM	12820	C	PRO	G	599	77.312	85.611	15.846	1.00	67.92	G
ATOM	12821	O	PRO	G	599	76.225	85.029	15.828	1.00	67.92	G
ATOM	12822	N	LEU	G	600	78.434	85.040	16.290	1.00	33.54	G
ATOM	12823	CA	LEU	G	600	78.468	83.655	16.759	1.00	33.54	G
ATOM	12824	CB	LEU	G	600	79.523	82.885	15.969	1.00	50.34	G
ATOM	12825	CG	LEU	G	600	79.547	83.272	14.489	1.00	50.34	G
ATOM	12826	CD1	LEU	G	600	80.734	82.640	13.780	1.00	50.34	G
ATOM	12827	CD2	LEU	G	600	78.242	82.856	13.857	1.00	50.34	G
ATOM	12828	C	LEU	G	600	78.766	83.555	18.250	1.00	33.54	G
ATOM	12829	O	LEU	G	600	79.576	84.315	18.790	1.00	33.54	G
ATOM	12830	N	ARG	G	601	78.110	82.599	18.905	1.00	99.93	G
ATOM	12831	CA	ARG	G	601	78.256	82.365	20.345	1.00	99.93	G
ATOM	12832	CB	ARG	G	601	77.073	81.516	20.834	1.00	100.07	G
ATOM	12833	CG	ARG	G	601	75.721	82.173	20.517	1.00	100.07	G
ATOM	12834	CD	ARG	G	601	74.510	81.448	21.106	1.00	100.07	G
ATOM	12835	NE	ARG	G	601	73.274	82.207	20.883	1.00	100.07	G
ATOM	12836	CZ	ARG	G	601	72.044	81.744	21.106	1.00	100.07	G
ATOM	12837	NH1	ARG	G	501	71.855	80.511	21.563	1.00	100.07	G
ATOM	12838	NH2	ARG	G	601	70.997	82.519	20.867	1.00	100.07	G
ATOM	12839	C	ARG	G	601	79.594	81.707	20.697	1.00	99.93	G
ATOM	12840	O	ARG	G	601	79.704	80.485	20.775	1.00	99.93	G
ATOM	12841	N	SER	G	602	80.600	82.539	20.935	1.00	61.69	G
ATOM	12842	CA	SER	G	602	81.942	82.065	21.235	1.00	61.69	G
ATOM	12843	CB	SER	G	602	82.966	83.116	20.794	1.00	99.19	G
ATOM	12844	OG	SER	G	602	82.786	84.339	21.488	1.00	99.19	G
ATOM	12845	C	SER	G	602	82.228	81.686	22.680	1.00	61.69	G
ATOM	12846	O	SER	G	602	81.469	82.028	23.591	1.00	61.69	G
ATOM	12847	N	LEU	G	603	83.348	80.983	22.870	1.00	56.92	G
ATOM	12848	CA	LEU	G	603	83.795	80.551	24.191	1.00	56.92	G
ATOM	12849	CB	LEU	G	603	85.145	79.848	24.119	1.00	93.55	G
ATOM	12850	CG	LEU	G	603	85.285	78.699	23.133	1.00	93.55	G
ATOM	12851	CD1	LEU	G	603	86.633	78.018	23.356	1.00	93.55	G
ATOM	12852	CD2	LEU	G	603	84.145	77.721	23.327	1.00	93.55	G
ATOM	12853	C	LEU	G	603	83.952	81.766	25.068	1.00	56.92	G
ATOM	12854	O	LEU	G	603	84.806	82.621	24.822	1.00	56.92	G
ATOM	12855	N	THR	G	604	83.125	81.841	26.098	1.00	46.27	G
ATOM	12856	CA	THR	G	604	83.177	82.960	27.022	1.00	46.27	G
ATOM	12857	CB	THR	G	604	84.602	83.176	27.555	1.00	100.07	G
ATOM	12858	OG1	THR	G	604	85.347	81.954	27.453	1.00	100.07	G
ATOM	12859	CG2	THR	G	604	84.548	83.583	29.015	1.00	100.07	G
ATOM	12860	C	THR	G	604	82.689	84.217	26.316	1.00	46.27	G
ATOM	12861	O	THR	G	604	83.409	85.212	26.188	1.00	46.27	G
ATOM	12862	N	ASP	G	605	81.452	84.116	25.837	1.00	83.07	G
ATOM	12863	CA	ASP	G	605	80.726	85.174	25.144	1.00	83.07	G
ATOM	12864	CB	ASP	G	605	80.995	85.137	23.641	1.00	100.07	G
ATOM	12865	CG	ASP	G	605	80.070	86.054	22.867	1.00	100.07	G
ATOM	12866	OD1	ASP	G	605	78.897	85.674	22.676	1.00	100.07	G
ATOM	12867	OD2	ASP	G	605	80.504	87.158	22.463	1.00	100.07	G
ATOM	12868	C	ASP	G	605	79.285	84.796	25.423	1.00	83.07	G
ATOM	12869	O	ASP	G	605	78.533	85.544	26.048	1.00	83.07	G
ATOM	12870	N	ILE	G	606	78.916	83.616	24.941	1.00	79.89	G
ATOM	12871	CA	ILE	G	606	77.593	83.055	25.180	1.00	79.89	G
ATOM	12872	CB	ILE	G	606	76.939	82.510	23.869	1.00	100.07	G
ATOM	12873	CG2	ILE	G	606	75.871	81.453	24.176	1.00	100.07	G
ATOM	12874	CG1	ILE	G	606	76.303	83.677	23.097	1.00	100.07	G
ATOM	12875	CD	ILE	G	606	75.043	84.258	23.735	1.00	100.07	G
ATOM	12876	C	ILE	G	606	77.957	81.949	26.158	1.00	79.89	G
ATOM	12877	O	ILE	G	606	77.261	80.954	26.335	1.00	79.89	G
ATOM	12878	N	LEU	G	607	79.106	82.163	26.778	1.00	76.14	G
ATOM	12879	CA	LEU	G	607	79.642	81.280	27.788	1.00	76.14	G
ATOM	12880	CB	LEU	G	607	80.797	80.465	27.220	1.00	92.61	G
ATOM	12881	CG	LEU	G	607	80.428	79.479	26.116	1.00	92.61	G
ATOM	12882	CD1	LEU	G	607	81.671	78.738	25.679	1.00	92.61	G
ATOM	12883	CD2	LEU	G	607	79.387	78.497	26.625	1.00	92.61	G
ATOM	12884	C	LEU	G	607	80.137	82.259	28.842	1.00	76.14	G
ATOM	12885	O	LEU	G	607	80.842	83.221	28.517	1.00	76.14	G
ATOM	12886	N	SER	G	608	79.750	82.037	30.095	1.00	84.73	G
ATOM	12887	CA	SER	G	608	80.141	82.940	31.172	1.00	84.73	G
ATOM	12888	CB	SER	G	608	81.635	83.266	31.069	1.00	72.65	G
ATOM	12889	OG	SER	G	608	82.397	82.079	30.879	1.00	72.65	G
ATOM	12890	C	SER	G	608	79.304	84.216	31.040	1.00	84.73	G
ATOM	12891	O	SER	G	608	78.362	84.429	31.802	1.00	84.73	G
ATOM	12892	N	GLY	G	609	79.646	85.043	30.059	1.00	48.23	G
ATOM	12893	CA	GLY	G	609	78.925	86.281	29.814	1.00	48.23	G
ATOM	12894	C	GLY	G	609	77.513	86.397	30.366	1.00	48.23	G
ATOM	12895	O	GLY	G	609	77.331	86.581	31.564	1.00	48.23	G
ATOM	12896	N	LYS	G	610	76.507	86.298	29.500	1.00	100.07	G
ATOM	12897	CA	LYS	G	610	75.108	86.425	29.925	1.00	100.07	G
ATOM	12898	CB	LYS	G	610	74.213	86.723	28.715	1.00	100.07	G

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ATOM	12899	CG	LYS	G	610	74.583	87.986	27.951	1.00100.07	G
ATOM	12900	CD	LYS	G	610	73.938	87.997	26.574	1.00100.07	G
ATOM	12901	CE	LYS	G	610	74.635	88.981	25.643	1.00100.07	G
ATOM	12902	NZ	LYS	G	610	74.195	88.837	24.221	1.00100.07	G
ATOM	12903	C	LYS	G	610	74.595	85.177	30.636	1.00100.07	G
ATOM	12904	O	LYS	G	610	75.364	84.488	31.306	1.00100.07	G
ATOM	12905	N	GLN	G	611	73.292	84.913	30.492	1.00 54.57	G
ATOM	12906	CA	GLN	G	611	72.633	83.749	31.091	1.00 54.57	G
ATOM	12907	CB	GLN	G	611	71.281	83.493	30.403	1.00100.07	G
ATOM	12908	CG	GLN	G	611	70.109	84.395	30.833	1.00100.07	G
ATOM	12909	CD	GLN	G	611	68.775	84.030	30.135	1.00100.07	G
ATOM	12910	OE1	GLN	G	611	68.389	82.852	30.066	1.00100.07	G
ATOM	12911	NE2	GLN	G	611	68.068	85.046	29.630	1.00100.07	G
ATOM	12912	C	GLN	G	611	73.497	82.493	30.950	1.00 54.57	G
ATOM	12913	O	GLN	G	611	73.199	81.624	30.143	1.00 54.57	G
ATOM	12914	N	GLY	G	612	74.563	82.384	31.734	1.00 79.93	G
ATOM	12915	CA	GLY	G	612	75.406	81.212	31.617	1.00 79.93	G
ATOM	12916	C	GLY	G	612	76.576	81.115	32.575	1.00 79.93	G
ATOM	12917	O	GLY	G	612	76.977	82.086	33.224	1.00 79.93	G
ATOM	12918	N	ALA	G	613	77.120	79.906	32.652	1.00100.07	G
ATOM	12919	CA	ALA	G	613	78.257	79.598	33.502	1.00100.07	G
ATOM	12920	CB	ALA	G	613	79.524	80.187	32.898	1.00100.07	G
ATOM	12921	C	ALA	G	613	78.088	80.076	34.938	1.00100.07	G
ATOM	12922	O	ALA	G	613	77.578	79.344	35.787	1.00100.07	G
ATOM	12923	N	PHE	G	614	78.507	81.305	35.212	1.00 68.46	G
ATOM	12924	CA	PHE	G	614	78.421	81.825	36.566	1.00 68.46	G
ATOM	12925	CB	PHE	G	614	79.486	82.911	36.783	1.00 49.59	G
ATOM	12926	CG	PHE	G	614	80.898	82.426	36.598	1.00 49.59	G
ATOM	12927	CD1	PHE	G	614	81.682	82.912	35.556	1.00 49.59	G
ATOM	12928	CD2	PHE	G	614	81.421	81.450	37.432	1.00 49.59	G
ATOM	12929	CE1	PHE	G	614	82.963	82.429	35.342	1.00 49.59	G
ATOM	12930	CE2	PHE	G	614	82.698	80.958	37.231	1.00 49.59	G
ATOM	12931	CZ	PHE	G	614	83.473	81.446	36.181	1.00 49.59	G
ATOM	12932	C	PHE	G	614	77.051	82.361	36.971	1.00 68.46	G
ATOM	12933	O	PHE	G	614	76.956	83.193	37.874	1.00 68.46	G
ATOM	12934	N	ARG	G	615	75.987	81.891	36.325	1.00 38.15	G
ATOM	12935	CA	ARG	G	615	74.654	82.366	36.684	1.00 38.15	G
ATOM	12936	CB	ARG	G	615	74.219	83.507	35.768	1.00 68.40	G
ATOM	12937	CG	ARG	G	615	75.299	84.538	35.494	1.00 68.40	G
ATOM	12938	CD	ARG	G	615	74.687	85.884	35.161	1.00 68.40	G
ATOM	12939	NE	ARG	G	615	75.519	86.690	34.277	1.00 68.40	G
ATOM	12940	CZ	ARG	G	615	75.282	87.967	34.014	1.00 68.40	G
ATOM	12941	NH1	ARG	G	615	74.246	88.576	34.575	1.00 68.40	G
ATOM	12942	NH2	ARG	G	615	76.065	88.628	33.177	1.00 68.40	G
ATOM	12943	C	ARG	G	615	73.602	81.274	36.644	1.00 38.15	G
ATOM	12944	O	ARG	G	615	72.761	81.188	37.527	1.00 38.15	G
ATOM	12945	N	GLN	G	616	73.640	80.428	35.628	1.00 41.80	G
ATOM	12946	CA	GLN	G	616	72.637	79.385	35.554	1.00 41.80	G
ATOM	12947	CB	GLN	G	616	72.773	78.585	34.258	1.00100.07	G
ATOM	12948	CG	GLN	G	616	71.518	77.788	33.932	1.00100.07	G
ATOM	12949	CD	GLN	G	616	71.433	77.401	32.474	1.00100.07	G
ATOM	12950	OE1	GLN	G	616	71.313	78.256	31.595	1.00100.07	G
ATOM	12951	NE2	GLN	G	616	71.495	76.103	32.205	1.00100.07	G
ATOM	12952	C	GLN	G	616	72.663	78.458	36.767	1.00 41.80	G
ATOM	12953	O	GLN	G	616	73.230	77.369	36.761	1.00 41.80	G
ATOM	12954	N	ASN	G	617	72.016	78.934	37.811	1.00 41.52	G
ATOM	12955	CA	ASN	G	617	71.875	78.241	39.071	1.00 41.52	G
ATOM	12956	CB	ASN	G	617	73.228	77.840	39.654	1.00 55.01	G
ATOM	12957	CG	ASN	G	617	73.694	76.488	39.157	1.00 55.01	G
ATOM	12958	OD1	ASN	G	617	73.027	75.480	39.347	1.00 55.01	G
ATOM	12959	ND2	ASN	G	617	74.845	76.464	38.518	1.00 55.01	G
ATOM	12960	C	ASN	G	617	71.207	79.306	39.907	1.00 41.52	G
ATOM	12961	O	ASN	G	617	70.217	79.053	40.591	1.00 41.52	G
ATOM	12962	N	LEU	G	618	71.756	80.511	39.832	1.00 38.70	G
ATOM	12963	CA	LEU	G	618	71.167	81.630	40.526	1.00 38.70	G
ATOM	12964	CB	LEU	G	618	71.997	82.889	40.295	1.00 19.94	G
ATOM	12965	CG	LEU	G	618	73.466	82.736	40.713	1.00 19.94	G
ATOM	12966	CD1	LEU	G	618	74.257	83.963	40.314	1.00 19.94	G
ATOM	12967	CD2	LEU	G	618	73.555	82.490	42.228	1.00 19.94	G
ATOM	12968	C	LEU	G	618	69.863	81.673	39.749	1.00 38.70	G
ATOM	12969	O	LEU	G	618	68.925	80.969	40.102	1.00 38.70	G
ATOM	12970	N	LEU	G	619	69.808	82.449	38.672	1.00 99.98	G
ATOM	12971	CA	LEU	G	619	68.598	82.510	37.855	1.00 99.98	G
ATOM	12972	CB	LEU	G	619	68.928	83.021	36.454	1.00 43.46	G
ATOM	12973	CG	LEU	G	619	69.107	84.510	36.169	1.00 43.46	G
ATOM	12974	CD1	LEU	G	619	70.027	85.128	37.195	1.00 43.46	G
ATOM	12975	CD2	LEU	G	619	69.651	84.684	34.748	1.00 43.46	G
ATOM	12976	C	LEU	G	619	67.958	81.121	37.738	1.00 99.98	G
ATOM	12977	O	LEU	G	619	68.639	80.132	37.466	1.00 99.98	G
ATOM	12978	N	GLY	G	620	66.645	81.076	37.944	1.00 79.93	G
ATOM	12979	CA	GLY	G	620	65.859	79.849	37.884	1.00 79.93	G
ATOM	12980	C	GLY	G	620	66.407	78.473	37.513	1.00 79.93	G
ATOM	12981	O	GLY	G	620	67.469	78.050	37.976	1.00 79.93	G
ATOM	12982	N	LYS	G	621	65.613	77.781	36.691	1.00 72.90	G

ATOM	12983	CA	LYS	G	621	65.844	76.429	36.169	1.00	72.90	G
ATOM	12984	CB	LYS	G	621	66.924	75.690	36.958	1.00	46.06	G
ATOM	12985	CG	LYS	G	621	68.324	75.911	36.404	1.00	46.06	G
ATOM	12986	CD	LYS	G	621	69.330	74.976	37.067	1.00	46.06	G
ATOM	12987	CE	LYS	G	621	70.722	75.151	36.490	1.00	46.06	G
ATOM	12988	NZ	LYS	G	621	71.698	74.369	37.268	1.00	46.06	G
ATOM	12989	C	LYS	G	621	64.526	75.652	36.235	1.00	72.90	G
ATOM	12990	O	LYS	G	621	63.762	75.803	37.184	1.00	72.90	G
ATOM	12991	N	ARG	G	322	64.261	74.829	35.226	1.00	28.55	G
ATOM	12992	CA	ARG	G	622	63.023	74.059	35.150	1.00	28.55	G
ATOM	12993	CB	ARG	G	622	62.770	73.590	33.711	1.00	99.38	G
ATOM	12994	CG	ARG	G	622	62.745	74.693	32.676	1.00	99.38	G
ATOM	12995	CD	ARG	G	622	61.448	75.469	32.695	1.00	99.38	G
ATOM	12996	NE	ARG	G	622	61.630	76.827	32.187	1.00	99.38	G
ATOM	12997	CZ	ARG	G	622	60.653	77.721	32.056	1.00	99.38	G
ATOM	12998	NH1	ARG	G	622	59.407	77.403	32.392	1.00	99.38	G
ATOM	12999	NH2	ARG	G	622	60.924	78.942	31.603	1.00	99.38	G
ATOM	13000	C	ARG	G	622	62.947	72.843	36.063	1.00	28.55	G
ATOM	13001	O	ARG	G	622	63.176	71.720	35.616	1.00	28.55	G
ATOM	13002	N	VAL	G	623	62.617	73.056	37.333	1.00	29.29	G
ATOM	13003	CA	VAL	G	623	62.469	71.937	38.259	1.00	29.29	G
ATOM	13004	CB	VAL	G	623	61.667	72.327	39.512	1.00	100.07	G
ATOM	13005	CG1	VAL	G	623	61.412	71.093	40.369	1.00	100.07	G
ATOM	13006	CG2	VAL	G	623	62.424	73.368	40.310	1.00	100.07	G
ATOM	13007	C	VAL	G	623	61.695	70.838	37.530	1.00	29.29	G
ATOM	13008	O	VAL	G	623	60.690	71.092	36.852	1.00	29.29	G
ATOM	13009	N	ASP	G	624	62.155	69.608	37.676	1.00	89.28	G
ATOM	13010	CA	ASP	G	624	61.512	68.520	36.983	1.00	89.28	G
ATOM	13011	CB	ASP	G	624	62.571	67.568	36.447	1.00	70.43	G
ATOM	13012	CG	ASP	G	624	62.035	66.655	35.383	1.00	70.43	G
ATOM	13013	OD1	ASP	G	624	61.474	67.173	34.395	1.00	70.43	G
ATOM	13014	OD2	ASP	G	624	62.176	65.424	35.536	1.00	70.43	G
ATOM	13015	C	ASP	G	624	60.500	67.755	37.812	1.00	89.28	G
ATOM	13016	O	ASP	G	624	60.294	66.569	37.589	1.00	89.28	G
ATOM	13017	N	TYR	G	625	59.864	68.421	38.765	1.00	78.71	G
ATOM	13018	CA	TYR	G	625	58.857	67.755	39.581	1.00	78.71	G
ATOM	13019	CB	TYR	G	625	59.495	67.007	40.746	1.00	49.45	G
ATOM	13020	CG	TYR	G	625	59.741	65.537	40.492	1.00	49.45	G
ATOM	13021	CD1	TYR	G	625	60.922	65.105	39.900	1.00	49.45	G
ATOM	13022	CE1	TYR	G	625	61.157	63.763	39.675	1.00	49.45	G

ATOM	13067	CG1	ILE	G	631	47.086	78.742	45.631	1.00	68.49	G
ATOM	13068	CD	ILE	G	631	47.489	78.004	44.373	1.00	68.49	G
ATOM	13069	C	ILE	G	631	43.360	79.093	45.118	1.00	34.03	G
ATOM	13070	O	ILE	G	631	42.682	79.928	44.500	1.00	34.03	G
ATOM	13071	N	VAL	G	632	42.914	78.390	46.159	1.00	34.74	G
ATOM	13072	CA	VAL	G	632	41.587	78.552	46.738	1.00	34.74	G
ATOM	13073	CB	VAL	G	632	40.559	77.618	46.049	1.00	9.48	G
ATOM	13074	CG1	VAL	G	632	39.632	77.010	47.063	1.00	9.48	G
ATOM	13075	CG2	VAL	G	632	39.744	78.401	45.048	1.00	9.48	G
ATOM	13076	C	VAL	G	632	41.643	78.249	48.238	1.00	34.74	G
ATOM	13077	O	VAL	G	632	42.370	77.353	48.694	1.00	34.74	G
ATOM	13078	N	VAL	G	633	40.878	79.025	48.999	1.00	18.50	G
ATOM	13079	CA	VAL	G	633	40.798	78.870	50.436	1.00	18.50	G
ATOM	13080	CB	VAL	G	633	40.042	80.021	51.044	1.00	35.16	G
ATOM	13081	CG1	VAL	G	633	38.677	80.106	50.397	1.00	35.16	G
ATOM	13082	CG2	VAL	G	633	39.890	79.807	52.539	1.00	35.16	G
ATOM	13083	C	VAL	G	633	40.022	77.609	50.789	1.00	18.50	G
ATOM	13084	O	VAL	G	633	39.194	77.123	50.008	1.00	18.50	G
ATOM	13085	N	GLY	G	634	40.275	77.100	51.988	1.00	15.10	G
ATOM	13086	CA	GLY	G	634	39.578	75.923	52.465	1.00	15.10	G
ATOM	13087	C	GLY	G	634	40.061	75.554	53.850	1.00	15.10	G
ATOM	13088	O	GLY	G	634	41.266	75.446	54.061	1.00	15.10	G
ATOM	13089	N	PRO	G	635	39.159	75.386	54.821	1.00	29.71	G
ATOM	13090	CD	PRO	G	635	37.763	75.838	54.812	1.00	61.92	G
ATOM	13091	CA	PRO	G	635	39.576	75.018	56.177	1.00	29.71	G
ATOM	13092	CB	PRO	G	635	38.283	75.107	56.967	1.00	61.92	G
ATOM	13093	CG	PRO	G	635	37.552	76.173	56.259	1.00	61.92	G
ATOM	13094	C	PRO	G	635	40.189	73.602	56.224	1.00	29.71	G
ATOM	13095	O	PRO	G	635	39.640	72.686	56.846	1.00	29.71	G
ATOM	13096	N	ALA	G	636	41.319	73.424	55.538	1.00	69.68	G
ATOM	13097	CA	ALA	G	636	42.032	72.145	55.509	1.00	69.68	G
ATOM	13098	CB	ALA	G	636	43.073	72.138	54.341	1.00	5.07	G
ATOM	13099	C	ALA	G	636	42.729	72.080	56.866	1.00	69.68	G
ATOM	13100	O	ALA	G	636	42.862	73.110	57.514	1.00	69.68	G
ATOM	13101	N	ALA	G	637	43.151	70.900	57.316	1.00	64.90	G
ATOM	13102	CA	ALA	G	637	43.832	70.815	58.614	1.00	64.90	G
ATOM	13103	CB	ALA	G	637	44.521	69.484	58.788	1.00	100.07	G
ATOM	13104	C	ALA	G	637	44.850	71.928	58.601	1.00	64.90	G
ATOM	13105	O	ALA	G	637	45.944	71.792	58.055	1.00	64.90	G
ATOM	13106	N	ALA	G	638	44.456	73.044	59.190	1.00	92.94	G
ATOM	13107	CA	ALA	G	638	45.288	74.218	59.222	1.00	92.94	G
ATOM	13108	CB	ALA	G	638	45.005	75.022	60.440	1.00	25.01	G
ATOM	13109	C	ALA	G	638	46.753	73.911	59.166	1.00	92.94	G
ATOM	13110	O	ALA	G	638	47.239	72.985	59.814	1.00	92.94	G
ATOM	13111	N	LEU	G	639	47.445	74.708	58.367	1.00	63.12	G
ATOM	13112	CA	LEU	G	639	48.878	74.610	58.210	1.00	63.12	G
ATOM	13113	CB	LEU	G	639	49.560	75.097	59.496	1.00	30.13	G
ATOM	13114	CG	LEU	G	639	48.719	75.720	60.625	1.00	30.13	G
ATOM	13115	CD1	LEU	G	639	49.628	76.005	61.813	1.00	30.13	G
ATOM	13116	CD2	LEU	G	639	48.040	76.992	60.159	1.00	30.13	G
ATOM	13117	C	LEU	G	639	49.310	73.189	57.908	1.00	63.12	G
ATOM	13118	O	LEU	G	639	49.639	72.838	56.783	1.00	63.12	G
ATOM	13119	N	HIS	G	640	49.308	72.381	58.947	1.00	58.21	G
ATOM	13120	CA	HIS	G	640	49.691	71.000	58.872	1.00	58.21	G
ATOM	13121	CB	HIS	G	640	49.015	70.275	60.019	1.00	83.80	G
ATOM	13122	CG	HIS	G	640	49.760	69.077	60.489	1.00	83.80	G
ATOM	13123	CD2	HIS	G	640	49.334	67.944	61.087	1.00	83.80	G
ATOM	13124	ND1	HIS	G	640	51.132	68.988	60.422	1.00	83.80	G
ATOM	13125	CE1	HIS	G	640	51.521	67.847	60.962	1.00	83.80	G
ATOM	13126	NE2	HIS	G	640	50.451	67.195	61.376	1.00	83.80	G
ATOM	13127	C	HIS	G	640	49.422	70.253	57.556	1.00	58.21	G
ATOM	13128	O	HIS	G	640	49.986	69.181	57.359	1.00	58.21	G
ATOM	13129	N	GLN	G	641	48.592	70.787	56.652	1.00	37.38	G
ATOM	13130	CA	GLN	G	641	48.288	70.069	55.407	1.00	37.38	G
ATOM	13131	CB	GLN	G	641	46.961	69.326	55.561	1.00	45.66	G
ATOM	13132	CG	GLN	G	641	46.911	68.476	56.831	1.00	45.66	G
ATOM	13133	CD	GLN	G	641	45.771	67.479	56.865	1.00	45.66	G
ATOM	13134	OE1	GLN	G	641	44.609	67.828	56.636	1.00	45.66	G
ATOM	13135	NE2	GLN	G	641	46.101	66.224	57.172	1.00	45.66	G
ATOM	13136	C	GLN	G	641	48.259	70.931	54.158	1.00	37.38	G
ATOM	13137	O	GLN	G	641	48.869	71.982	54.139	1.00	37.38	G
ATOM	13138	N	CYS	G	642	47.546	70.501	53.116	1.00	91.93	G
ATOM	13139	CA	CYS	G	642	47.514	71.262	51.863	1.00	91.93	G
ATOM	13140	CB	CYS	G	642	48.696	70.842	50.997	1.00	28.38	G
ATOM	13141	SG	CYS	G	642	48.976	71.902	49.585	1.00	28.38	G
ATOM	13142	C	CYS	G	642	46.235	71.165	51.027	1.00	91.93	G
ATOM	13143	O	CYS	G	642	45.134	71.169	51.570	1.00	91.93	G
ATOM	13144	N	GLY	G	643	46.406	71.092	49.702	1.00	24.53	G
ATOM	13145	CA	GLY	G	643	45.296	71.008	48.753	1.00	24.53	G
ATOM	13146	C	GLY	G	643	45.601	70.019	47.634	1.00	24.53	G
ATOM	13147	O	GLY	G	643	45.687	68.822	47.901	1.00	24.53	G
ATOM	13148	N	LEU	G	644	45.768	70.490	46.394	1.00	40.04	G
ATOM	13149	CA	LEU	G	644	46.078	69.603	45.251	1.00	40.04	G
ATOM	13150	CB	LEU	G	644	47.129	68.551	45.622	1.00	19.81	G

ATOM	13151	CG	LEU	G	644	48.596	68.886	45.827	1.00	19.81	G
ATOM	13152	CD1	LEU	G	644	48.763	69.685	47.086	1.00	19.81	G
ATOM	13153	CD2	LEU	G	644	49.379	67.595	45.946	1.00	19.81	G
ATOM	13154	C	LEU	G	644	44.914	68.828	44.635	1.00	40.04	G
ATOM	13155	O	LEU	G	644	44.300	67.997	45.296	1.00	40.04	G
ATOM	13156	N	PRO	G	645	44.626	69.049	43.348	1.00	38.50	G
ATOM	13157	CD	PRO	G	645	45.406	69.783	42.347	1.00	17.71	G
ATOM	13158	CA	PRO	G	645	43.521	68.314	42.720	1.00	38.50	G
ATOM	13159	CB	PRO	G	645	43.562	68.775	41.268	1.00	17.71	G
ATOM	13160	CG	PRO	G	645	44.372	70.066	41.310	1.00	17.71	G
ATOM	13161	C	PRO	G	645	43.922	66.858	42.831	1.00	38.50	G
ATOM	13162	O	PRO	G	645	45.116	66.567	42.882	1.00	38.50	G
ATOM	13163	N	LYS	G	646	42.973	65.932	42.865	1.00	80.83	G
ATOM	13164	CA	LYS	G	646	43.392	64.546	42.979	1.00	80.83	G
ATOM	13165	CB	LYS	G	646	42.257	63.646	43.454	1.00	39.56	G
ATOM	13166	CG	LYS	G	646	41.140	63.342	42.490	1.00	39.56	G
ATOM	13167	CD	LYS	G	646	40.197	62.424	43.240	1.00	39.56	G
ATOM	13168	CE	LYS	G	646	39.155	61.766	42.373	1.00	39.56	G
ATOM	13169	NZ	LYS	G	646	38.444	60.697	43.168	1.00	39.56	G
ATOM	13170	C	LYS	G	646	43.918	64.084	41.650	1.00	80.83	G
ATOM	13171	O	LYS	G	646	43.965	62.902	41.358	1.00	80.83	G
ATOM	13172	N	ARG	G	647	44.316	65.051	40.844	1.00	49.85	G
ATOM	13173	CA	ARG	G	647	44.868	64.794	39.534	1.00	49.85	G
ATOM	13174	CB	ARG	G	647	44.283	65.796	38.543	1.00	99.57	G
ATOM	13175	CG	ARG	G	647	44.334	65.362	37.102	1.00	99.57	G
ATOM	13176	CD	ARG	G	647	43.502	64.113	36.879	1.00	99.57	G
ATOM	13177	NE	ARG	G	647	43.402	63.777	35.460	1.00	99.57	G
ATOM	13178	CZ	ARG	G	647	42.906	62.634	34.990	1.00	99.57	G
ATOM	13179	NH1	ARG	G	647	42.461	61.700	35.828	1.00	99.57	G
ATOM	13180	NH2	ARG	G	647	42.859	62.427	33.677	1.00	99.57	G
ATOM	13181	C	ARG	G	647	46.367	65.015	39.710	1.00	49.85	G
ATOM	13182	O	ARG	G	647	47.125	64.056	39.787	1.00	49.85	G
ATOM	13183	N	MET	G	648	46.763	66.289	39.816	1.00	29.00	G
ATOM	13184	CA	MET	G	548	48.156	66.717	39.993	1.00	29.00	G
ATOM	13185	CB	MET	G	648	48.243	68.102	40.649	1.00	30.28	G
ATOM	13186	CG	MET	G	648	47.489	69.223	39.953	1.00	30.28	G
ATOM	13187	SD	MET	G	648	48.145	70.888	40.324	1.00	30.28	G
ATOM	13188	CE	MET	G	648	48.852	70.663	41.989	1.00	30.28	G
ATOM	13189	C	MET	G	648	48.936	65.761	40.858	1.00	29.00	G
ATOM	13190	O	MET	G	648	50.023	65.337	40.484	1.00	29.00	G
ATOM	13191	N	ALA	G	649	48.382	65.430	42.020	1.00	26.60	G
ATOM	13192	CA	ALA	G	649	49.066	64.528	42.939	1.00	26.60	G
ATOM	13193	CB	ALA	G	649	48.095	64.021	44.027	1.00	10.22	G
ATOM	13194	C	ALA	G	649	49.628	63.363	42.131	1.00	26.60	G
ATOM	13195	O	ALA	G	649	50.809	62.997	42.254	1.00	26.60	G
ATOM	13196	N	LEU	G	650	48.778	62.791	41.288	1.00	49.03	G
ATOM	13197	CA	LEU	G	650	49.195	61.683	40.447	1.00	49.03	G
ATOM	13198	CB	LEU	G	650	48.053	61.267	39.511	1.00	47.03	G
ATOM	13199	CG	LEU	G	650	48.350	60.182	38.470	1.00	47.03	G
ATOM	13200	CD1	LEU	G	650	48.809	58.909	39.163	1.00	47.03	G
ATOM	13201	CD2	LEU	G	650	47.102	59.920	37.639	1.00	47.03	G
ATOM	13202	C	LEU	G	650	50.408	62.105	39.627	1.00	49.03	G
ATOM	13203	O	LEU	G	650	51.540	61.729	39.936	1.00	49.03	G
ATOM	13204	N	GLU	G	651	50.159	62.915	38.600	1.00	48.76	G
ATOM	13205	CA	GLU	G	651	51.206	63.382	37.702	1.00	48.76	G
ATOM	13206	CB	GLU	G	651	50.737	64.594	36.904	1.00	84.05	G
ATOM	13207	CG	GLU	G	651	51.026	64.488	35.413	1.00	84.05	G
ATOM	13208	CD	GLU	G	651	52.443	64.041	35.119	1.00	84.05	G
ATOM	13209	OE1	GLU	G	651	53.375	64.581	35.748	1.00	84.05	G
ATOM	13210	OE2	GLU	G	651	52.626	63.160	34.252	1.00	84.05	G
ATOM	13211	C	GLU	G	651	52.501	63.719	38.410	1.00	48.76	G
ATOM	13212	O	GLU	G	651	53.559	63.655	37.801	1.00	48.76	G
ATOM	13213	N	LEU	G	652	52.431	64.083	39.687	1.00	47.24	G
ATOM	13214	CA	LEU	G	652	53.650	64.397	40.419	1.00	47.24	G
ATOM	13215	CB	LEU	G	652	53.376	65.324	41.613	1.00	47.90	G
ATOM	13216	CG	LEU	G	652	53.281	66.856	41.463	1.00	47.90	G
ATOM	13217	CD1	LEU	G	652	54.230	67.347	40.356	1.00	47.90	G
ATOM	13218	CD2	LEU	G	652	51.850	67.267	41.166	1.00	47.90	G
ATOM	13219	C	LEU	G	652	54.310	63.122	40.919	1.00	47.24	G
ATOM	13220	O	LEU	G	652	55.413	62.784	40.509	1.00	47.24	G
ATOM	13221	N	PHE	G	653	53.620	62.400	41.787	1.00	56.79	G
ATOM	13222	CA	PHE	G	653	54.175	61.179	42.354	1.00	56.79	G
ATOM	13223	CB	PHE	G	653	53.487	60.905	43.690	1.00	25.78	G
ATOM	13224	CG	PHE	G	653	53.758	61.954	44.725	1.00	25.78	G
ATOM	13225	CD1	PHE	G	653	53.278	63.242	44.569	1.00	25.78	G
ATOM	13226	CD2	PHE	G	653	54.540	61.666	45.830	1.00	25.78	G
ATOM	13227	CE1	PHE	G	653	53.579	64.224	45.495	1.00	25.78	G
ATOM	13228	CE2	PHE	G	653	54.841	62.649	46.754	1.00	25.78	G
ATOM	13229	CZ	PHE	G	653	54.361	63.928	46.584	1.00	25.78	G
ATOM	13230	C	PHE	G	653	54.133	59.924	41.473	1.00	56.79	G
ATOM	13231	O	PHE	G	653	54.311	58.806	41.963	1.00	56.79	G
ATOM	13232	N	LYS	G	654	53.916	60.105	40.174	1.00	40.62	G
ATOM	13233	CA	LYS	G	654	53.854	58.971	39.255	1.00	40.62	G
ATOM	13234	CB	LYS	G	654	53.914	59.473	37.808	1.00	99.70	G

ATOM	13235	CG	LYS	G	654	53.341	58.518	36.779	1.00	99.70	G
ATOM	13236	CD	LYS	G	654	52.932	59.276	35.524	1.00	99.70	G
ATOM	13237	CE	LYS	G	654	52.021	58.444	34.652	1.00	99.70	G
ATOM	13238	NZ	LYS	G	654	51.344	59.299	33.652	1.00	99.70	G
ATOM	13239	C	LYS	G	654	54.996	57.992	39.551	1.00	40.62	G
ATOM	13240	O	LYS	G	654	54.764	56.925	40.117	1.00	40.62	G
ATOM	13241	N	PRO	G	655	56.248	58.364	39.212	1.00	28.87	G
ATOM	13242	CD	PRO	G	655	56.711	59.692	38.775	1.00	54.28	G
ATOM	13243	CA	PRO	G	655	57.400	57.494	39.457	1.00	28.87	G
ATOM	13244	CB	PRO	G	655	58.588	58.421	39.247	1.00	54.28	G
ATOM	13245	CG	PRO	G	655	58.084	59.385	38.254	1.00	54.28	G
ATOM	13246	C	PRO	G	655	57.359	56.982	40.870	1.00	28.87	G
ATOM	13247	O	PRO	G	655	57.877	55.921	41.169	1.00	28.87	G
ATOM	13248	N	PHE	G	656	56.745	57.756	41.746	1.00	35.11	G
ATOM	13249	CA	PHE	G	656	56.658	57.361	43.133	1.00	35.11	G
ATOM	13250	CB	PHE	G	656	56.374	58.585	44.010	1.00	60.65	G
ATOM	13251	CG	PHE	G	656	57.544	58.999	44.841	1.00	60.65	G
ATOM	13252	CD1	PHE	G	656	58.759	59.294	44.244	1.00	60.65	G
ATOM	13253	CD2	PHE	G	656	57.459	59.003	46.225	1.00	60.65	G
ATOM	13254	CE1	PHE	G	656	59.875	59.576	45.012	1.00	60.65	G
ATOM	13255	CE2	PHE	G	656	58.570	59.283	47.008	1.00	60.65	G
ATOM	13256	CZ	PHE	G	656	59.782	59.568	46.402	1.00	60.65	G
ATOM	13257	C	PHE	G	656	55.568	56.334	43.280	1.00	35.11	G
ATOM	13258	O	PHE	G	656	55.662	55.425	44.102	1.00	35.11	G
ATOM	13259	N	LEU	G	657	54.537	56.489	42.464	1.00	65.32	G
ATOM	13260	CA	LEU	G	657	53.414	55.586	42.488	1.00	65.32	G
ATOM	13261	CB	LEU	G	657	52.169	56.265	41.898	1.00	19.03	G
ATOM	13262	CG	LEU	G	657	50.975	55.329	41.619	1.00	19.03	G
ATOM	13263	CD1	LEU	G	657	50.680	54.490	42.870	1.00	19.03	G
ATOM	13264	CD2	LEU	G	657	49.739	56.121	41.187	1.00	19.03	G
ATOM	13265	C	LEU	G	657	53.706	54.284	41.744	1.00	65.32	G
ATOM	13266	O	LEU	G	657	53.362	53.211	42.235	1.00	65.32	G
ATOM	13267	N	LEU	G	658	54.346	54.358	40.578	1.00	78.99	G
ATOM	13268	CA	LEU	G	658	54.639	53.146	39.805	1.00	78.99	G
ATOM	13269	CB	LEU	G	658	55.548	53.470	38.619	1.00	45.38	G
ATOM	13270	CG	LEU	G	658	55.077	54.636	37.735	1.00	45.38	G
ATOM	13271	CD1	LEU	G	658	55.955	54.755	36.495	1.00	45.38	G
ATOM	13272	CD2	LEU	G	658	53.636	54.419	37.334	1.00	45.38	G
ATOM	13273	C	LEU	G	658	55.258	52.033	40.646	1.00	78.99	G
ATOM	13274	O	LEU	G	658	55.009	50.860	40.397	1.00	78.99	G

ATOM	13319	N	LYS	G	664	52.608	46.841	45.349	1.00	60.73	G
ATOM	13320	CA	LYS	G	664	51.229	46.778	45.823	1.00	60.73	G
ATOM	13321	CB	LYS	G	664	50.480	48.055	45.402	1.00	100.07	G
ATOM	13322	CG	LYS	G	664	49.017	48.173	45.852	1.00	100.07	G
ATOM	13323	CD	LYS	G	664	48.847	48.509	47.331	1.00	100.07	G
ATOM	13324	CE	LYS	G	664	47.372	48.719	47.656	1.00	100.07	G
ATOM	13325	NZ	LYS	G	664	47.100	48.884	49.106	1.00	100.07	G
ATOM	13326	C	LYS	G	664	50.618	45.549	45.164	1.00	60.73	G
ATOM	13327	O	LYS	G	664	49.423	45.279	45.281	1.00	60.73	G
ATOM	13328	N	ALA	G	665	51.470	44.813	44.463	1.00	100.07	G
ATOM	13329	CA	ALA	G	665	51.084	43.592	43.780	1.00	100.07	G
ATOM	13330	CB	ALA	G	665	50.374	42.646	44.750	1.00	100.07	G
ATOM	13331	C	ALA	G	665	50.233	43.798	42.535	1.00	100.07	G
ATOM	13332	O	ALA	G	665	50.370	43.036	41.574	1.00	100.07	G
ATOM	13333	N	PHE	G	666	49.361	44.805	42.515	1.00	33.07	G
ATOM	13334	CA	PHE	G	666	48.553	44.963	41.311	1.00	33.07	G
ATOM	13335	CB	PHE	G	666	47.475	46.016	41.454	1.00	72.87	G
ATOM	13336	CG	PHE	G	666	46.494	45.973	40.331	1.00	72.87	G
ATOM	13337	CD1	PHE	G	666	45.872	44.768	40.001	1.00	72.87	G
ATOM	13338	CD2	PHE	G	666	46.212	47.101	39.580	1.00	72.87	G
ATOM	13339	CE1	PHE	G	666	44.981	44.683	38.938	1.00	72.87	G
ATOM	13340	CE2	PHE	G	666	45.318	47.029	38.511	1.00	72.87	G
ATOM	13341	CZ	PHE	G	666	44.701	45.815	38.188	1.00	72.87	G
ATOM	13342	C	PHE	G	666	49.398	45.312	40.108	1.00	33.07	G
ATOM	13343	O	PHE	G	666	50.470	45.878	40.256	1.00	33.07	G
ATOM	13344	N	ALA	G	667	48.906	44.990	38.917	1.00	84.06	G
ATOM	13345	CA	ALA	G	667	49.659	45.255	37.695	1.00	84.06	G
ATOM	13346	CB	ALA	G	667	49.845	46.752	37.502	1.00	100.07	G
ATOM	13347	C	ALA	G	667	51.017	44.550	37.815	1.00	84.06	G
ATOM	13348	O	ALA	G	667	51.907	44.994	38.542	1.00	84.06	G
ATOM	13349	N	PRO	G	668	51.191	43.439	37.088	1.00	100.07	G
ATOM	13350	CD	PRO	G	668	50.284	42.977	36.021	1.00	100.07	G
ATOM	13351	CA	PRO	G	668	52.423	42.645	37.102	1.00	100.07	G
ATOM	13352	CB	PRO	G	668	52.097	41.502	36.152	1.00	100.07	G
ATOM	13353	CG	PRO	G	668	51.206	42.169	35.146	1.00	100.07	G
ATOM	13354	C	PRO	G	668	53.699	43.374	36.702	1.00	100.07	G
ATOM	13355	O	PRO	G	668	54.733	43.223	37.359	1.00	100.07	G
ATOM	13356	N	ASN	G	669	53.629	44.158	35.627	1.00	100.04	G
ATOM	13357	CA	ASN	G	669	54.803	44.880	35.144	1.00	100.04	G
ATOM	13358	CB	ASN	G	669	54.957	44.687	33.628	1.00	100.07	G</

ATOM	13403	CG	MET	G	676	46.249	49.693	35.088	1.00	58.41	G
ATOM	13404	SD	MET	G	676	46.864	48.497	36.277	1.00	58.41	G
ATOM	13405	CE	MET	G	676	47.491	47.222	35.162	1.00	58.41	G
ATOM	13406	C	MET	G	676	46.637	52.314	33.486	1.00	87.94	G
ATOM	13407	O	MET	G	676	45.482	52.403	33.896	1.00	87.94	G
ATOM	13408	N	LEU	G	677	47.457	53.360	33.393	1.00	72.25	G
ATOM	13409	CA	LEU	G	677	47.018	54.712	33.724	1.00	72.25	G
ATOM	13410	CB	LEU	G	677	48.045	55.446	34.594	1.00	26.85	G
ATOM	13411	CG	LEU	G	677	48.854	54.754	35.700	1.00	26.85	G
ATOM	13412	CD1	LEU	G	677	49.709	55.787	36.404	1.00	26.85	G
ATOM	13413	CD2	LEU	G	677	47.952	54.080	36.701	1.00	26.85	G
ATOM	13414	C	LEU	G	677	46.913	55.434	32.391	1.00	72.25	G
ATOM	13415	O	LEU	G	677	46.217	56.441	32.261	1.00	72.25	G
ATOM	13416	N	GLU	G	678	47.622	54.896	31.401	1.00	100.07	G
ATOM	13417	CA	GLU	G	678	47.658	55.455	30.050	1.00	100.07	G
ATOM	13418	CB	GLU	G	678	48.872	54.905	29.279	1.00	100.07	G
ATOM	13419	CG	GLU	G	678	49.657	55.956	28.480	1.00	100.07	G
ATOM	13420	CD	GLU	G	678	51.005	56.308	29.110	1.00	100.07	G
ATOM	13421	OE1	GLU	G	678	51.886	55.422	29.158	1.00	100.07	G
ATOM	13422	OE2	GLU	G	678	51.186	57.467	29.554	1.00	100.07	G
ATOM	13423	C	GLU	G	678	46.376	55.186	29.246	1.00	100.07	G
ATOM	13424	O	GLU	G	678	46.371	55.317	28.019	1.00	100.07	G
ATOM	13425	N	ARG	G	679	45.296	54.799	29.924	1.00	100.07	G
ATOM	13426	CA	ARG	G	679	44.024	54.567	29.239	1.00	100.07	G
ATOM	13427	CB	ARG	G	679	43.046	53.833	30.171	1.00	100.07	G
ATOM	13428	CG	ARG	G	679	41.582	53.754	29.693	1.00	100.07	G
ATOM	13429	CD	ARG	G	679	41.419	53.023	28.359	1.00	100.07	G
ATOM	13430	NE	ARG	G	679	40.018	52.701	28.074	1.00	100.07	G
ATOM	13431	CZ	ARG	G	679	39.603	52.017	27.008	1.00	100.07	G
ATOM	13432	NH1	ARG	G	679	40.480	51.579	26.111	1.00	100.07	G
ATOM	13433	NH2	ARG	G	679	38.311	51.751	26.845	1.00	100.07	G
ATOM	13434	C	ARG	G	679	43.501	55.963	28.895	1.00	100.07	G
ATOM	13435	O	ARG	G	679	42.337	56.143	28.538	1.00	100.07	G
ATOM	13436	N	GLN	G	680	44.406	56.937	29.010	1.00	100.07	G
ATOM	13437	CA	GLN	G	680	44.164	58.358	28.764	1.00	100.07	G
ATOM	13438	CB	GLN	G	680	43.680	58.597	27.316	1.00	100.07	G
ATOM	13439	CG	GLN	G	680	42.222	58.264	27.005	1.00	100.07	G
ATOM	13440	CD	GLN	G	680	41.919	58.299	25.507	1.00	100.07	G
ATOM	13441	OE1	GLN	G	680	42.237	59.273	24.820	1.00	100.07	G
ATOM	13442	NE2	GLN	G	680	41.300	57.235	25.000	1.00	100.07	G
ATOM	13443	C	GLN	G	680	43.185	58.926	29.796	1.00	100.07	G
ATOM	13444	O	GLN	G	680	43.281	60.099	30.181	1.00	100.07	G
ATOM	13445	N	ARG	G	681	42.273	58.065	30.257	1.00	100.07	G
ATOM	13446	CA	ARG	G	681	41.253	58.394	31.261	1.00	100.07	G
ATOM	13447	CB	ARG	G	681	40.134	59.242	30.630	1.00	100.07	G
ATOM	13448	CG	ARG	G	681	40.583	60.631	30.171	1.00	100.07	G
ATOM	13449	CD	ARG	G	681	39.496	61.380	29.411	1.00	100.07	G
ATOM	13450	NE	ARG	G	681	39.821	62.800	29.260	1.00	100.07	G
ATOM	13451	CZ	ARG	G	681	38.950	63.737	28.885	1.00	100.07	G
ATOM	13452	NH1	ARG	G	681	37.690	63.404	28.614	1.00	100.07	G
ATOM	13453	NH2	ARG	G	681	39.328	65.012	28.801	1.00	100.07	G
ATOM	13454	C	ARG	G	681	40.662	57.090	31.834	1.00	100.07	G
ATOM	13455	O	ARG	G	681	40.220	56.226	31.072	1.00	100.07	G
ATOM	13456	N	ASP	G	682	40.690	56.962	33.166	1.00	70.65	G
ATOM	13457	CA	ASP	G	682	40.167	55.807	33.927	1.00	70.65	G
ATOM	13458	CB	ASP	G	682	39.532	54.752	33.021	1.00	100.07	G
ATOM	13459	CG	ASP	G	682	38.153	55.148	32.556	1.00	100.07	G
ATOM	13460	OD1	ASP	G	682	37.364	55.607	33.412	1.00	100.07	G
ATOM	13461	OD2	ASP	G	682	37.859	54.995	31.347	1.00	100.07	G
ATOM	13462	C	ASP	G	682	41.162	55.100	34.834	1.00	70.65	G
ATOM	13463	O	ASP	G	682	42.155	54.538	34.378	1.00	70.65	G
ATOM	13464	N	ILE	G	683	40.865	55.135	36.129	1.00	38.32	G
ATOM	13465	CA	ILE	G	683	41.675	54.505	37.170	1.00	38.32	G
ATOM	13466	CB	ILE	G	683	42.678	55.479	37.791	1.00	59.54	G
ATOM	13467	CG2	ILE	G	683	43.507	54.751	38.799	1.00	59.54	G
ATOM	13468	CG1	ILE	G	683	43.550	56.133	36.717	1.00	59.54	G
ATOM	13469	CD	ILE	G	683	42.934	57.366	36.061	1.00	59.54	G
ATOM	13470	C	ILE	G	683	40.665	54.180	38.253	1.00	38.32	G
ATOM	13471	O	ILE	G	683	40.248	55.070	38.993	1.00	38.32	G
ATOM	13472	N	LYS	G	684	40.246	52.928	38.354	1.00	43.89	G
ATOM	13473	CA	LYS	G	684	39.251	52.618	39.364	1.00	43.89	G
ATOM	13474	CB	LYS	G	684	38.720	51.190	39.205	1.00	78.47	G
ATOM	13475	CG	LYS	G	684	37.257	51.070	39.599	1.00	78.47	G
ATOM	13476	CD	LYS	G	684	36.910	49.691	40.121	1.00	78.47	G
ATOM	13477	CE	LYS	G	684	35.516	49.689	40.748	1.00	78.47	G
ATOM	13478	NZ	LYS	G	684	35.209	48.429	41.497	1.00	78.47	G
ATOM	13479	C	LYS	G	684	39.867	52.807	40.745	1.00	43.89	G
ATOM	13480	O	LYS	G	684	41.096	52.845	40.887	1.00	43.89	G
ATOM	13481	N	ASP	G	685	39.008	52.931	41.755	1.00	100.07	G
ATOM	13482	CA	ASP	G	685	39.452	53.136	43.132	1.00	100.07	G
ATOM	13483	CB	ASP	G	685	38.262	53.085	44.111	1.00	87.93	G
ATOM	13484	CG	ASP	G	685	37.108	52.229	43.610	1.00	87.93	G
ATOM	13485	OD1	ASP	G	685	36.414	52.649	42.654	1.00	87.93	G
ATOM	13486	OD2	ASP	G	685	36.893	51.140	44.183	1.00	87.93	G

ATOM	13487	C	ASP	G	685	40.533	52.173	43.595	1.00100.07	G
ATOM	13488	O	ASP	G	685	41.146	52.378	44.639	1.00100.07	G
ATOM	13489	N	GLU	G	686	40.772	51.129	42.813	1.00100.07	G
ATOM	13490	CA	GLU	G	686	41.784	50.147	43.165	1.00100.07	G
ATOM	13491	CB	GLU	G	686	41.770	49.002	42.164	1.00 84.76	G
ATOM	13492	CG	GLU	G	686	40.408	48.380	42.036	1.00 84.76	G
ATOM	13493	CD	GLU	G	686	40.394	47.204	41.103	1.00 84.76	G
ATOM	13494	OE1	GLU	G	686	40.990	46.161	41.452	1.00 84.76	G
ATOM	13495	OE2	GLU	G	686	39.786	47.329	40.018	1.00 84.76	G
ATOM	13496	C	GLU	G	686	43.146	50.805	43.190	1.00100.07	G
ATOM	13497	O	GLU	G	686	44.085	50.279	43.795	1.00100.07	G
ATOM	13498	N	VAL	G	687	43.250	51.958	42.533	1.00 46.49	G
ATOM	13499	CA	VAL	G	687	44.514	52.682	42.508	1.00 46.49	G
ATOM	13500	CB	VAL	G	687	44.814	53.289	41.138	1.00 35.04	G
ATOM	13501	CG1	VAL	G	687	46.045	54.179	41.242	1.00 35.04	G
ATOM	13502	CG2	VAL	G	687	45.052	52.188	40.118	1.00 35.04	G
ATOM	13503	C	VAL	G	687	44.544	53.797	43.547	1.00 46.49	G
ATOM	13504	O	VAL	G	687	45.270	53.686	44.526	1.00 46.49	G
ATOM	13505	N	TRP	G	688	43.772	54.863	43.333	1.00 20.87	G
ATOM	13506	CA	TRP	G	688	43.720	55.965	44.281	1.00 20.87	G
ATOM	13507	CB	TRP	G	688	42.305	56.476	44.383	1.00 49.62	G
ATOM	13508	CG	TRP	G	688	41.901	57.091	43.144	1.00 49.62	G
ATOM	13509	CD2	TRP	G	688	42.654	58.040	42.391	1.00 49.62	G
ATOM	13510	CE2	TRP	G	688	41.899	58.355	41.247	1.00 49.62	G
ATOM	13511	CE3	TRP	G	688	43.897	58.658	42.574	1.00 49.62	G
ATOM	13512	CD1	TRP	G	688	40.754	56.869	42.459	1.00 49.62	G
ATOM	13513	NE1	TRP	G	688	40.740	57.622	41.313	1.00 49.62	G
ATOM	13514	CZ2	TRP	G	688	42.341	59.262	40.278	1.00 49.62	G
ATOM	13515	CZ3	TRP	G	688	44.338	59.555	41.615	1.00 49.62	G
ATOM	13516	CH2	TRP	G	688	43.560	59.849	40.480	1.00 49.62	G
ATOM	13517	C	TRP	G	688	44.188	55.531	45.645	1.00 20.87	G
ATOM	13518	O	TRP	G	688	45.009	56.198	46.269	1.00 20.87	G
ATOM	13519	N	ASP	G	689	43.660	54.408	46.113	1.00 42.52	G
ATOM	13520	CA	ASP	G	689	44.078	53.882	47.394	1.00 42.52	G
ATOM	13521	CB	ASP	G	689	43.327	52.580	47.721	1.00100.07	G
ATOM	13522	CG	ASP	G	689	41.810	52.717	47.599	1.00100.07	G
ATOM	13523	OD1	ASP	G	689	41.310	53.862	47.662	1.00100.07	G
ATOM	13524	OD2	ASP	G	689	41.117	51.678	47.456	1.00100.07	G
ATOM	13525	C	ASP	G	689	45.577	53.600	47.241	1.00 42.52	G
ATOM	13526	O	ASP	G	689	46.134	52.746	47.921	1.00 42.52	G
ATOM	13527	N	ALA	G	690	46.222	54.327	46.333	1.00 47.89	G
ATOM	13528	CA	ALA	G	690	47.643	54.188	46.058	1.00 47.89	G
ATOM	13529	CB	ALA	G	690	47.882	54.194	44.566	1.00 36.87	G
ATOM	13530	C	ALA	G	690	48.389	55.344	46.698	1.00 47.89	G
ATOM	13531	O	ALA	G	690	49.052	55.180	47.727	1.00 47.89	G
ATOM	13532	N	LEU	G	691	48.280	56.518	46.087	1.00 40.84	G
ATOM	13533	CA	LEU	G	691	48.955	57.678	46.623	1.00 40.84	G
ATOM	13534	CB	LEU	G	691	48.634	58.920	45.804	1.00 23.09	G
ATOM	13535	CG	LEU	G	691	47.944	58.688	44.465	1.00 23.09	G
ATOM	13536	CD1	LEU	G	691	46.503	58.272	44.744	1.00 23.09	G
ATOM	13537	CD2	LEU	G	691	47.974	59.951	43.599	1.00 23.09	G
ATOM	13538	C	LEU	G	691	48.513	57.876	48.069	1.00 40.84	G
ATOM	13539	O	LEU	G	691	49.340	58.165	48.942	1.00 40.84	G
ATOM	13540	N	GLU	G	692	47.219	57.705	48.342	1.00 64.10	G
ATOM	13541	CA	GLU	G	692	46.733	57.880	49.710	1.00 64.10	G
ATOM	13542	CB	GLU	G	692	45.261	57.489	49.842	1.00 49.74	G
ATOM	13543	CG	GLU	G	692	44.271	58.463	49.215	1.00 49.74	G
ATOM	13544	CD	GLU	G	692	42.837	58.188	49.660	1.00 49.74	G
ATOM	13545	OE1	GLU	G	692	42.624	58.220	50.892	1.00 49.74	G
ATOM	13546	OE2	GLU	G	692	41.940	57.943	48.801	1.00 49.74	G
ATOM	13547	C	GLU	G	692	47.559	57.062	50.689	1.00 64.10	G
ATOM	13548	O	GLU	G	692	47.240	57.006	51.874	1.00 64.10	G
ATOM	13549	N	GLU	G	693	48.598	56.405	50.179	1.00 49.95	G
ATOM	13550	CA	GLU	G	693	49.506	55.633	51.011	1.00 49.95	G
ATOM	13551	CB	GLU	G	693	49.291	54.126	50.825	1.00100.07	G
ATOM	13552	CG	GLU	G	693	49.785	53.255	52.009	1.00100.07	G
ATOM	13553	CD	GLU	G	693	49.297	53.739	53.391	1.00100.07	G
ATOM	13554	OE1	GLU	G	693	48.170	54.273	53.492	1.00100.07	G
ATOM	13555	OE2	GLU	G	693	50.036	53.569	54.387	1.00100.07	G
ATOM	13556	C	GLU	G	693	50.951	56.039	50.683	1.00 49.95	G
ATOM	13557	O	GLU	G	693	51.817	56.065	51.566	1.00 49.95	G
ATOM	13558	N	VAL	G	694	51.227	56.366	49.426	1.00 39.51	G
ATOM	13559	CA	VAL	G	694	52.577	56.814	49.076	1.00 39.51	G
ATOM	13560	CB	VAL	G	694	52.730	56.982	47.569	1.00 40.15	G
ATOM	13561	CG1	VAL	G	694	54.179	56.794	47.165	1.00 40.15	G
ATOM	13562	CG2	VAL	G	694	51.826	56.012	46.863	1.00 40.15	G
ATOM	13563	C	VAL	G	694	52.721	58.198	49.727	1.00 39.51	G
ATOM	13564	O	VAL	G	694	53.490	58.395	50.672	1.00 39.51	G
ATOM	13565	N	ILE	G	695	51.952	59.145	49.197	1.00 36.94	G
ATOM	13566	CA	ILE	G	695	51.902	60.512	49.683	1.00 36.94	G
ATOM	13567	CB	ILE	G	695	50.572	61.185	49.226	1.00 24.82	G
ATOM	13568	CG2	ILE	G	695	49.718	61.592	50.406	1.00 24.82	G
ATOM	13569	CG1	ILE	G	695	50.886	62.396	48.368	1.00 24.82	G
ATOM	13570	CD	ILE	G	695	51.757	62.063	47.194	1.00 24.82	G

ATOM	13571	C	ILE	G	695	51.979	60.492	51.195	1.00	36.94	G
ATOM	13572	O	ILE	G	695	52.712	61.270	51.796	1.00	36.94	G
ATOM	13573	N	HIS	G	696	51.211	59.584	51.789	1.00	38.08	G
ATOM	13574	CA	HIS	G	696	51.133	59.403	53.238	1.00	38.08	G
ATOM	13575	CB	HIS	G	696	50.525	58.035	53.536	1.00	99.89	G
ATOM	13576	CG	HIS	G	696	50.622	57.623	54.969	1.00	99.89	G
ATOM	13577	CD2	HIS	G	696	50.832	58.342	56.095	1.00	99.89	G
ATOM	13578	ND1	HIS	G	696	50.485	56.312	55.371	1.00	99.89	G
ATOM	13579	CE1	HIS	G	696	50.610	56.241	56.683	1.00	99.89	G
ATOM	13580	NE2	HIS	G	696	50.820	57.460	57.147	1.00	99.89	G
ATOM	13581	C	HIS	G	696	52.484	59.523	53.936	1.00	38.08	G
ATOM	13582	O	HIS	G	696	53.291	58.600	53.901	1.00	38.08	G
ATOM	13583	N	GLY	G	697	52.714	60.661	54.583	1.00	56.00	G
ATOM	13584	CA	GLY	G	697	53.966	60.884	55.281	1.00	56.00	G
ATOM	13585	C	GLY	G	697	54.874	61.798	54.490	1.00	56.00	G
ATOM	13586	O	GLY	G	697	55.994	62.093	54.896	1.00	56.00	G
ATOM	13587	N	ALA	G	698	54.381	62.256	53.349	1.00	37.91	G
ATOM	13588	CA	ALA	G	698	55.161	63.125	52.487	1.00	37.91	G
ATOM	13589	CB	ALA	G	698	55.250	62.534	51.078	1.00	39.23	G
ATOM	13590	C	ALA	G	698	54.565	64.515	52.427	1.00	37.91	G
ATOM	13591	O	ALA	G	698	53.345	64.676	52.308	1.00	37.91	G
ATOM	13592	N	VAL	G	699	55.446	65.510	52.518	1.00	52.30	G
ATOM	13593	CA	VAL	G	699	55.066	66.916	52.462	1.00	52.30	G
ATOM	13594	CB	VAL	G	699	55.817	67.763	53.482	1.00	20.29	G
ATOM	13595	CG1	VAL	G	699	55.163	67.671	54.842	1.00	20.29	G
ATOM	13596	CG2	VAL	G	699	57.244	67.301	53.546	1.00	20.29	G
ATOM	13597	C	VAL	G	699	55.454	67.436	51.111	1.00	52.30	G
ATOM	13598	O	VAL	G	699	56.109	66.744	50.348	1.00	52.30	G
ATOM	13599	N	VAL	G	700	55.078	68.674	50.837	1.00	20.52	G
ATOM	13600	CA	VAL	G	700	55.373	69.297	49.558	1.00	20.52	G
ATOM	13601	CB	VAL	G	700	54.227	69.080	48.593	1.00	5.07	G
ATOM	13602	CG1	VAL	G	700	54.421	69.949	47.418	1.00	5.07	G
ATOM	13603	CG2	VAL	G	700	54.162	67.637	48.170	1.00	5.07	G
ATOM	13604	C	VAL	G	700	55.652	70.805	49.580	1.00	20.52	G
ATOM	13605	O	VAL	G	700	54.876	71.586	50.116	1.00	20.52	G
ATOM	13606	N	LEU	G	701	56.750	71.224	48.975	1.00	23.60	G
ATOM	13607	CA	LEU	G	701	57.036	72.642	48.938	1.00	23.60	G
ATOM	13608	CB	LEU	G	701	58.326	72.913	48.163	1.00	29.05	G
ATOM	13609	CG	LEU	G	701	59.569	72.325	48.830	1.00	29.05	G
ATOM	13610	CD1	LEU	G	701	59.495	72.639	50.302	1.00	29.05	G
ATOM	13611	CD2	LEU	G	701	59.639	70.814	48.647	1.00	29.05	G
ATOM	13612	C	LEU	G	701	55.878	73.293	48.218	1.00	23.60	G
ATOM	13613	O	LEU	G	701	55.483	72.837	47.147	1.00	23.60	G
ATOM	13614	N	LEU	G	702	55.307	74.332	48.810	1.00	11.36	G
ATOM	13615	CA	LEU	G	702	54.215	75.033	48.153	1.00	11.36	G
ATOM	13616	CB	LEU	G	702	53.049	75.191	49.126	1.00	9.14	G
ATOM	13617	CG	LEU	G	702	51.658	75.494	48.568	1.00	9.14	G
ATOM	13618	CD1	LEU	G	702	51.857	76.287	47.304	1.00	9.14	G
ATOM	13619	CD2	LEU	G	702	50.855	74.233	48.287	1.00	9.14	G
ATOM	13620	C	LEU	G	702	54.823	76.392	47.771	1.00	11.36	G
ATOM	13621	O	LEU	G	702	55.236	77.161	48.636	1.00	11.36	G
ATOM	13622	N	ASN	G	703	54.895	76.671	46.471	1.00	17.78	G
ATOM	13623	CA	ASN	G	703	55.508	77.904	45.927	1.00	17.78	G
ATOM	13624	CB	ASN	G	703	55.575	77.826	44.406	1.00	100.07	G
ATOM	13625	CG	ASN	G	703	56.980	77.643	43.880	1.00	100.07	G
ATOM	13626	OD1	ASN	G	703	57.845	78.512	44.042	1.00	100.07	G
ATOM	13627	ND2	ASN	G	703	57.215	76.508	43.230	1.00	100.07	G
ATOM	13628	C	ASN	G	703	54.821	79.195	46.251	1.00	17.78	G
ATOM	13629	O	ASN	G	703	54.011	79.266	47.154	1.00	17.78	G
ATOM	13630	N	ARG	G	704	55.165	80.212	45.475	1.00	55.34	G
ATOM	13631	CA	ARG	G	704	54.579	81.538	45.572	1.00	55.34	G
ATOM	13632	CB	ARG	G	704	54.661	82.120	46.964	1.00	43.55	G
ATOM	13633	CG	ARG	G	704	54.072	83.507	46.979	1.00	43.55	G
ATOM	13634	CD	ARG	G	704	52.663	83.513	46.360	1.00	43.55	G
ATOM	13635	NE	ARG	G	704	52.338	84.820	45.790	1.00	43.55	G
ATOM	13636	CZ	ARG	G	704	51.119	85.214	45.436	1.00	43.55	G
ATOM	13637	NH1	ARG	G	704	50.087	84.404	45.594	1.00	43.55	G
ATOM	13638	NH2	ARG	G	704	50.936	86.422	44.919	1.00	43.55	G
ATOM	13639	C	ARG	G	704	55.320	82.460	44.640	1.00	55.34	G
ATOM	13640	O	ARG	G	704	56.522	82.297	44.438	1.00	55.34	G
ATOM	13641	N	ALA	G	705	54.609	83.437	44.085	1.00	100.07	G
ATOM	13642	CA	ALA	G	705	55.216	84.364	43.143	1.00	100.07	G
ATOM	13643	CB	ALA	G	705	54.160	85.316	42.575	1.00	5.07	G
ATOM	13644	C	ALA	G	705	56.422	85.129	43.694	1.00	100.07	G
ATOM	13645	O	ALA	G	705	57.431	84.508	44.027	1.00	100.07	G
ATOM	13646	N	PRO	G	706	56.345	86.467	43.831	1.00	36.82	G
ATOM	13647	CD	PRO	G	706	55.233	87.410	44.038	1.00	13.47	G
ATOM	13648	CA	PRO	G	706	57.583	87.045	44.348	1.00	36.82	G
ATOM	13649	CB	PRO	G	706	57.236	88.514	44.473	1.00	13.47	G
ATOM	13650	CG	PRO	G	706	55.845	88.438	44.951	1.00	13.47	G
ATOM	13651	C	PRO	G	706	57.929	86.410	45.669	1.00	36.82	G
ATOM	13652	O	PRO	G	706	57.302	86.696	46.683	1.00	36.82	G
ATOM	13653	N	THR	G	707	58.911	85.520	45.660	1.00	41.13	G
ATOM	13654	CA	THR	G	707	59.288	84.870	46.897	1.00	41.13	G

ATOM	13655	CB	THR	G	707	59.990	83.528	46.652	1.00	42.58	G
ATOM	13656	OG1	THR	G	707	59.029	82.579	46.188	1.00	42.58	G
ATOM	13657	CG2	THR	G	707	60.601	83.001	47.925	1.00	42.58	G
ATOM	13658	C	THR	G	707	60.203	85.783	47.667	1.00	41.13	G
ATOM	13659	O	THR	G	707	61.409	85.781	47.460	1.00	41.13	G
ATOM	13660	N	LEU	G	708	59.615	86.598	48.528	1.00	13.85	G
ATOM	13661	CA	LEU	G	708	60.391	87.493	49.351	1.00	13.85	G
ATOM	13662	CB	LEU	G	708	59.617	88.782	49.559	1.00	53.00	G
ATOM	13663	CG	LEU	G	708	59.283	89.477	48.244	1.00	53.00	G
ATOM	13664	CD1	LEU	G	708	58.119	90.445	48.412	1.00	53.00	G
ATOM	13665	CD2	LEU	G	708	60.539	90.181	47.751	1.00	53.00	G
ATOM	13666	C	LEU	G	708	60.474	86.702	50.642	1.00	13.85	G
ATOM	13667	O	LEU	G	708	59.524	86.023	50.983	1.00	13.85	G
ATOM	13668	N	HIS	G	709	61.599	86.753	51.341	1.00	34.04	G
ATOM	13669	CA	HIS	G	709	61.773	86.024	52.602	1.00	34.04	G
ATOM	13670	CB	HIS	G	709	61.260	86.887	53.769	1.00	21.97	G
ATOM	13671	CG	HIS	G	709	59.773	86.850	53.971	1.00	21.97	G
ATOM	13672	CD2	HIS	G	709	59.035	86.635	55.087	1.00	21.97	G
ATOM	13673	ND1	HIS	G	709	58.870	87.119	52.965	1.00	21.97	G
ATOM	13674	CE1	HIS	G	709	57.641	87.072	53.449	1.00	21.97	G
ATOM	13675	NE2	HIS	G	709	57.714	86.781	54.735	1.00	21.97	G
ATOM	13676	C	HIS	G	709	61.200	84.587	52.724	1.00	34.04	G
ATOM	13677	O	HIS	G	709	60.108	84.277	52.255	1.00	34.04	G
ATOM	13678	N	ALA	G	710	61.972	83.725	53.378	1.00	37.34	G
ATOM	13679	CA	ALA	G	710	61.637	82.321	53.617	1.00	37.34	G
ATOM	13680	CB	ALA	G	710	61.887	81.998	55.087	1.00	39.67	G
ATOM	13681	C	ALA	G	710	60.267	81.776	53.225	1.00	37.34	G
ATOM	13682	O	ALA	G	710	60.165	80.749	52.556	1.00	37.34	G
ATOM	13683	N	LEU	G	711	59.213	82.459	53.644	1.00	37.53	G
ATOM	13684	CA	LEU	G	711	57.845	82.000	53.406	1.00	37.53	G
ATOM	13685	CB	LEU	G	711	56.930	82.763	54.368	1.00	68.00	G
ATOM	13686	CG	LEU	G	711	57.603	82.864	55.753	1.00	68.00	G
ATOM	13687	CD1	LEU	G	711	56.779	83.729	56.671	1.00	68.00	G
ATOM	13688	CD2	LEU	G	711	57.801	81.484	56.361	1.00	68.00	G
ATOM	13689	C	LEU	G	711	57.247	81.966	51.984	1.00	37.53	G
ATOM	13690	O	LEU	G	711	56.051	81.728	51.803	1.00	37.53	G
ATOM	13691	N	GLY	G	712	58.065	82.192	50.970	1.00	55.55	G
ATOM	13692	CA	GLY	G	712	57.543	82.115	49.620	1.00	55.55	G
ATOM	13693	C	GLY	G	712	57.451	80.630	49.296	1.00	55.55	G
ATOM	13694	O	GLY	G	712	56.982	80.221	48.219	1.00	55.55	G

ATOM	13739	O	PRO	G	718	48.171	65.153	51.433	1.00	40.24	G
ATOM	13740	N	VAL	G	719	46.919	66.642	50.320	1.00	18.41	G
ATOM	13741	CA	VAL	G	719	45.669	66.019	50.677	1.00	18.41	G
ATOM	13742	CB	VAL	G	719	45.034	66.762	51.806	1.00	5.76	G
ATOM	13743	CG1	VAL	G	719	43.514	66.781	51.638	1.00	5.76	G
ATOM	13744	CG2	VAL	G	719	45.416	66.081	53.096	1.00	5.76	G
ATOM	13745	C	VAL	G	719	44.723	65.994	49.499	1.00	18.41	G
ATOM	13746	O	VAL	G	719	44.280	67.042	49.026	1.00	18.41	G
ATOM	13747	N	LEU	G	720	44.396	64.794	49.038	1.00	24.94	G
ATOM	13748	CA	LEU	G	720	43.524	64.659	47.889	1.00	24.94	G
ATOM	13749	CB	LEU	G	720	43.204	63.191	47.676	1.00	29.73	G
ATOM	13750	CG	LEU	G	720	44.252	62.527	46.770	1.00	29.73	G
ATOM	13751	CD1	LEU	G	720	45.679	62.911	47.124	1.00	29.73	G
ATOM	13752	CD2	LEU	G	720	44.075	61.048	46.887	1.00	29.73	G
ATOM	13753	C	LEU	G	720	42.274	65.517	47.979	1.00	24.94	G
ATOM	13754	O	LEU	G	720	41.368	65.268	48.767	1.00	24.94	G
ATOM	13755	N	VAL	G	721	42.279	66.557	47.158	1.00	18.32	G
ATOM	13756	CA	VAL	G	721	41.215	67.542	47.073	1.00	18.32	G
ATOM	13757	CB	VAL	G	721	41.810	68.968	47.145	1.00	80.67	G
ATOM	13758	CG1	VAL	G	721	40.800	70.004	46.649	1.00	80.67	G
ATOM	13759	CG2	VAL	G	721	42.255	69.267	48.574	1.00	80.67	G
ATOM	13760	C	VAL	G	721	40.505	67.357	45.739	1.00	18.32	G
ATOM	13761	O	VAL	G	721	41.067	66.781	44.820	1.00	18.32	G
ATOM	13762	N	GLU	G	722	39.288	67.876	45.629	1.00	45.32	G
ATOM	13763	CA	GLU	G	722	38.489	67.734	44.426	1.00	45.32	G
ATOM	13764	CB	GLU	G	722	37.206	68.544	44.550	1.00	44.29	G
ATOM	13765	CG	GLU	G	722	36.123	68.015	43.653	1.00	44.29	G
ATOM	13766	CD	GLU	G	722	36.437	66.609	43.166	1.00	44.29	G
ATOM	13767	OE1	GLU	G	722	36.622	65.704	44.023	1.00	44.29	G
ATOM	13768	OE2	GLU	G	722	36.507	66.423	41.925	1.00	44.29	G
ATOM	13769	C	GLU	G	722	39.136	68.012	43.077	1.00	45.32	G
ATOM	13770	O	GLU	G	722	40.215	67.496	42.795	1.00	45.32	G
ATOM	13771	N	GLY	G	723	38.491	68.829	42.243	1.00	34.23	G
ATOM	13772	CA	GLY	G	723	39.013	69.064	40.899	1.00	34.23	G
ATOM	13773	C	GLY	G	723	39.745	70.316	40.433	1.00	34.23	G
ATOM	13774	O	GLY	G	723	39.124	71.321	40.077	1.00	34.23	G
ATOM	13775	N	GLN	G	724	41.071	70.223	40.375	1.00	56.41	G
ATOM	13776	CA	GLN	G	724	41.933	71.320	39.938	1.00	56.41	G
ATOM	13777	CB	GLN	G	724	41.507	71.809	38.546	1.00	59.60	G
ATOM	13778	CG	GLN	G	724	41.979	70.867	37.425	1.00	59.60	G
ATOM	13779	CD	GLN	G	724	41.227	71.027	36.111	1.00	59.60	G
ATOM	13780	OE1	GLN	G	724	41.635	70.488	35.088	1.00	59.60	G
ATOM	13781	NE2	GLN	G	724	40.117	71.753	36.140	1.00	59.60	G
ATOM	13782	C	GLN	G	724	41.984	72.458	40.944	1.00	56.41	G
ATOM	13783	O	GLN	G	724	41.268	72.440	41.941	1.00	56.41	G
ATOM	13784	N	SER	G	725	42.845	73.435	40.684	1.00	20.83	G
ATOM	13785	CA	SER	G	725	43.041	74.579	41.580	1.00	20.83	G
ATOM	13786	CB	SER	G	725	41.783	75.448	41.637	1.00	24.46	G
ATOM	13787	OG	SER	G	725	40.720	74.781	42.274	1.00	24.46	G
ATOM	13788	C	SER	G	725	43.439	74.083	42.979	1.00	20.83	G
ATOM	13789	O	SER	G	725	42.712	73.341	43.624	1.00	20.83	G
ATOM	13790	N	ILE	G	726	44.620	74.489	43.427	1.00	28.03	G
ATOM	13791	CA	ILE	G	726	45.144	74.063	44.718	1.00	28.03	G
ATOM	13792	CB	ILE	G	726	46.613	74.423	44.891	1.00	7.17	G
ATOM	13793	CG2	ILE	G	726	47.140	73.705	46.094	1.00	7.17	G
ATOM	13794	CG1	ILE	G	726	47.415	74.071	43.636	1.00	7.17	G
ATOM	13795	CD	ILE	G	726	48.900	74.259	43.804	1.00	7.17	G
ATOM	13796	C	ILE	G	726	44.433	74.717	45.871	1.00	28.03	G
ATOM	13797	O	ILE	G	726	44.211	75.929	45.865	1.00	28.03	G
ATOM	13798	N	GLN	G	727	44.117	73.913	46.879	1.00	22.73	G
ATOM	13799	CA	GLN	G	727	43.425	74.398	48.060	1.00	22.73	G
ATOM	13800	CB	GLN	G	727	42.509	73.310	48.592	1.00	21.00	G
ATOM	13801	CG	GLN	G	727	41.204	73.203	47.843	1.00	21.00	G
ATOM	13802	CD	GLN	G	727	40.183	72.386	48.609	1.00	21.00	G
ATOM	13803	OE1	GLN	G	727	38.996	72.355	48.258	1.00	21.00	G
ATOM	13804	NE2	GLN	G	727	40.636	71.714	49.670	1.00	21.00	G
ATOM	13805	C	GLN	G	727	44.409	74.809	49.139	1.00	22.73	G
ATOM	13806	O	GLN	G	727	45.249	74.014	49.536	1.00	22.73	G
ATOM	13807	N	LEU	G	728	44.298	76.041	49.626	1.00	60.72	G
ATOM	13808	CA	LEU	G	728	45.216	76.533	50.653	1.00	60.72	G
ATOM	13809	CB	LEU	G	728	45.834	77.845	50.207	1.00	5.43	G
ATOM	13810	CG	LEU	G	728	47.128	78.382	50.791	1.00	5.43	G
ATOM	13811	CD1	LEU	G	728	48.307	77.922	49.982	1.00	5.43	G
ATOM	13812	CD2	LEU	G	728	47.062	79.868	50.705	1.00	5.43	G
ATOM	13813	C	LEU	G	728	44.501	76.752	51.972	1.00	60.72	G
ATOM	13814	O	LEU	G	728	43.278	76.611	52.050	1.00	60.72	G
ATOM	13815	N	HIS	G	729	45.270	77.132	52.993	1.00	39.07	G
ATOM	13816	CA	HIS	G	729	44.740	77.352	54.346	1.00	39.07	G
ATOM	13817	CB	HIS	G	729	45.521	76.462	55.321	1.00	20.64	G
ATOM	13818	CG	HIS	G	729	45.291	76.786	56.759	1.00	20.64	G
ATOM	13819	CD2	HIS	G	729	46.134	76.772	57.814	1.00	20.64	G
ATOM	13820	ND1	HIS	G	729	44.064	77.171	57.254	1.00	20.64	G
ATOM	13821	CE1	HIS	G	729	44.162	77.381	58.554	1.00	20.64	G
ATOM	13822	NE2	HIS	G	729	45.409	77.144	58.919	1.00	20.64	G

ATOM	13823	C	HIS	G	729	44.767	78.826	54.792	1.00	39.07	G
ATOM	13824	O	HIS	G	729	45.839	79.420	54.937	1.00	39.07	G
ATOM	13825	N	PRO	G	730	43.581	79.412	55.063	1.00	24.89	G
ATOM	13826	CD	PRO	G	730	42.423	78.677	55.568	1.00	6.55	G
ATOM	13827	CA	PRO	G	730	43.439	80.799	55.477	1.00	24.89	G
ATOM	13828	CB	PRO	G	730	42.062	80.829	56.102	1.00	6.55	G
ATOM	13829	CG	PRO	G	730	42.020	79.545	56.748	1.00	6.55	G
ATOM	13830	C	PRO	G	730	44.507	81.276	56.420	1.00	24.89	G
ATOM	13831	O	PRO	G	730	44.875	82.443	56.366	1.00	24.89	G
ATOM	13832	N	LEU	G	731	45.026	80.420	57.288	1.00	27.73	G
ATOM	13833	CA	LEU	G	731	46.059	80.943	58.162	1.00	27.73	G
ATOM	13834	CB	LEU	G	731	46.388	79.987	59.301	1.00	6.67	G
ATOM	13835	CG	LEU	G	731	45.513	80.570	60.407	1.00	6.67	G
ATOM	13836	CD1	LEU	G	731	45.547	79.790	61.728	1.00	6.67	G
ATOM	13837	CD2	LEU	G	731	45.989	82.000	60.599	1.00	6.67	G
ATOM	13838	C	LEU	G	731	47.306	81.323	57.408	1.00	27.73	G
ATOM	13839	O	LEU	G	731	47.825	82.424	57.575	1.00	27.73	G
ATOM	13840	N	VAL	G	732	47.777	80.448	56.536	1.00	25.75	G
ATOM	13841	CA	VAL	G	732	48.981	80.787	55.812	1.00	25.75	G
ATOM	13842	CB	VAL	G	732	49.443	79.641	54.877	1.00	22.98	G
ATOM	13843	CG1	VAL	G	732	50.201	80.201	53.696	1.00	22.98	G
ATOM	13844	CG2	VAL	G	732	50.369	78.698	55.640	1.00	22.98	G
ATOM	13845	C	VAL	G	732	48.911	82.095	55.035	1.00	25.75	G
ATOM	13846	O	VAL	G	732	49.847	82.869	55.146	1.00	25.75	G
ATOM	13847	N	CYS	G	733	47.836	82.369	54.287	1.00	25.89	G
ATOM	13848	CA	CYS	G	733	47.777	83.617	53.510	1.00	25.89	G
ATOM	13849	CB	CYS	G	733	46.400	84.289	53.614	1.00	40.39	G
ATOM	13850	SG	CYS	G	733	46.388	86.066	53.027	1.00	40.39	G
ATOM	13851	C	CYS	G	733	48.870	84.626	53.936	1.00	25.89	G
ATOM	13852	O	CYS	G	733	49.939	84.687	53.318	1.00	25.89	G
ATOM	13853	N	GLU	G	734	48.600	85.395	54.995	1.00	26.35	G
ATOM	13854	CA	GLU	G	734	49.537	86.388	55.541	1.00	26.35	G
ATOM	13855	CB	GLU	G	734	49.660	86.214	57.060	1.00	95.88	G
ATOM	13856	CG	GLU	G	734	48.382	86.468	57.808	1.00	95.88	G
ATOM	13857	CD	GLU	G	734	47.743	87.754	57.360	1.00	95.88	G
ATOM	13858	OE1	GLU	G	734	48.461	88.777	57.327	1.00	95.88	G
ATOM	13859	OE2	GLU	G	734	46.534	87.741	57.033	1.00	95.88	G
ATOM	13860	C	GLU	G	734	50.930	86.333	54.938	1.00	26.35	G
ATOM	13861	O	GLU	G	734	51.175	86.902	53.895	1.00	26.35	G
ATOM	13862	N	ALA	G	735	51.835	85.633	55.611	1.00	10.09	G
ATOM	13863	CA	ALA	G	735	53.206	85.498	55.160	1.00	10.09	G
ATOM	13864	CB	ALA	G	735	53.868	84.376	55.869	1.00	5.07	G
ATOM	13865	C	ALA	G	735	53.339	85.291	53.672	1.00	10.09	G
ATOM	13866	O	ALA	G	735	53.891	86.148	52.982	1.00	10.09	G
ATOM	13867	N	PHE	G	736	52.839	84.161	53.172	1.00	22.54	G
ATOM	13868	CA	PHE	G	736	52.941	83.842	51.737	1.00	22.54	G
ATOM	13869	CB	PHE	G	736	52.390	82.425	51.451	1.00	26.85	G
ATOM	13870	CG	PHE	G	736	52.978	81.341	52.358	1.00	26.85	G
ATOM	13871	CD1	PHE	G	736	53.090	81.545	53.758	1.00	26.85	G
ATOM	13872	CD2	PHE	G	736	53.337	80.093	51.848	1.00	26.85	G
ATOM	13873	CE1	PHE	G	736	53.549	80.521	54.637	1.00	26.85	G
ATOM	13874	CE2	PHE	G	736	53.798	79.067	52.732	1.00	26.85	G
ATOM	13875	CZ	PHE	G	736	53.891	79.296	54.129	1.00	26.85	G
ATOM	13876	C	PHE	G	736	52.233	84.899	50.893	1.00	22.54	G
ATOM	13877	O	PHE	G	736	52.726	85.314	49.848	1.00	22.54	G
ATOM	13878	N	ASN	G	737	51.085	85.354	51.366	1.00	43.47	G
ATOM	13879	CA	ASN	G	737	50.345	86.381	50.661	1.00	43.47	G
ATOM	13880	CB	ASN	G	737	51.310	87.464	50.175	1.00	31.04	G
ATOM	13881	CG	ASN	G	737	50.610	88.555	49.396	1.00	31.04	G
ATOM	13882	OD1	ASN	G	737	49.995	88.291	48.360	1.00	31.04	G
ATOM	13883	ND2	ASN	G	737	50.693	89.796	49.893	1.00	31.04	G
ATOM	13884	C	ASN	G	737	49.575	85.827	49.477	1.00	43.47	G
ATOM	13885	O	ASN	G	737	50.190	85.327	48.533	1.00	43.47	G
ATOM	13886	N	ALA	G	738	48.241	85.920	49.510	1.00	23.77	G
ATOM	13887	CA	ALA	G	738	47.450	85.416	48.388	1.00	23.77	G
ATOM	13888	CB	ALA	G	738	47.645	83.901	48.276	1.00	72.85	G
ATOM	13889	C	ALA	G	738	45.955	85.744	48.327	1.00	23.77	G
ATOM	13890	O	ALA	G	738	45.138	84.845	48.319	1.00	23.77	G
ATOM	13891	N	ASP	G	739	45.568	87.008	48.256	1.00	84.88	G
ATOM	13892	CA	ASP	G	739	44.137	87.278	48.165	1.00	84.88	G
ATOM	13893	CB	ASP	G	739	43.879	88.785	48.016	1.00	100.07	G
ATOM	13894	CG	ASP	G	739	44.843	89.460	47.056	1.00	100.07	G
ATOM	13895	OD1	ASP	G	739	46.057	89.500	47.354	1.00	100.07	G
ATOM	13896	OD2	ASP	G	739	44.381	89.958	46.006	1.00	100.07	G
ATOM	13897	C	ASP	G	739	43.553	86.501	46.971	1.00	84.88	G
ATOM	13898	O	ASP	G	739	43.701	86.918	45.821	1.00	84.88	G
ATOM	13899	N	PHE	G	740	42.905	85.369	47.253	1.00	5.65	G
ATOM	13900	CA	PHE	G	740	42.317	84.520	46.217	1.00	5.65	G
ATOM	13901	CB	PHE	G	740	41.488	83.404	46.839	1.00	13.82	G
ATOM	13902	CG	PHE	G	740	42.123	82.754	48.021	1.00	13.82	G
ATOM	13903	CD1	PHE	G	740	42.274	83.436	49.207	1.00	13.82	G
ATOM	13904	CD2	PHE	G	740	42.572	81.449	47.954	1.00	13.82	G
ATOM	13905	CE1	PHE	G	740	42.868	82.826	50.308	1.00	13.82	G
ATOM	13906	CE2	PHE	G	740	43.168	80.839	49.058	1.00	13.82	G

ATOM	13907	CZ	PHE	G	740	43.313	81.529	50.223	1.00	13.82	G
ATOM	13908	C	PHE	G	740	41.393	85.278	45.284	1.00	5.65	G
ATOM	13909	O	PHE	G	740	40.206	85.392	45.574	1.00	5.65	G
ATOM	13910	N	ASP	G	741	41.912	85.780	44.168	1.00	14.73	G
ATOM	13911	CA	ASP	G	741	41.091	86.510	43.187	1.00	14.73	G
ATOM	13912	CB	ASP	G	741	41.012	88.015	43.511	1.00	68.42	G
ATOM	13913	CG	ASP	G	741	42.381	88.672	43.653	1.00	68.42	G
ATOM	13914	OD1	ASP	G	741	43.400	87.991	43.428	1.00	68.42	G
ATOM	13915	OD2	ASP	G	741	42.434	89.875	43.995	1.00	68.42	G
ATOM	13916	C	ASP	G	741	41.694	86.305	41.807	1.00	14.73	G
ATOM	13917	O	ASP	G	741	41.600	87.163	40.914	1.00	14.73	G
ATOM	13918	N	GLY	G	742	42.314	85.136	41.661	1.00	35.12	G
ATOM	13919	CA	GLY	G	742	42.963	84.760	40.425	1.00	35.12	G
ATOM	13920	C	GLY	G	742	44.412	84.397	40.683	1.00	35.12	G
ATOM	13921	O	GLY	G	742	45.136	84.056	39.756	1.00	35.12	G
ATOM	13922	N	ASP	G	743	44.839	84.448	41.942	1.00	31.29	G
ATOM	13923	CA	ASP	G	743	46.231	84.156	42.286	1.00	31.29	G
ATOM	13924	CB	ASP	G	743	46.521	84.495	43.767	1.00	71.46	G
ATOM	13925	CG	ASP	G	743	46.512	86.019	44.050	1.00	71.46	G
ATOM	13926	OD1	ASP	G	743	47.067	86.790	43.231	1.00	71.46	G
ATOM	13927	OD2	ASP	G	743	45.965	86.449	45.094	1.00	71.46	G
ATOM	13928	C	ASP	G	743	46.613	82.721	41.983	1.00	31.29	G
ATOM	13929	O	ASP	G	743	45.757	81.844	41.929	1.00	31.29	G
ATOM	13930	N	GLN	G	744	47.911	82.506	41.776	1.00	17.67	G
ATOM	13931	CA	GLN	G	744	48.479	81.190	41.446	1.00	17.67	G
ATOM	13932	CB	GLN	G	744	48.826	81.135	39.957	1.00	50.63	G
ATOM	13933	CG	GLN	G	744	47.652	81.262	39.027	1.00	50.63	G
ATOM	13934	CD	GLN	G	744	48.052	81.012	37.591	1.00	50.63	G
ATOM	13935	OE1	GLN	G	744	48.747	80.045	37.298	1.00	50.63	G
ATOM	13936	NE2	GLN	G	744	47.611	81.877	36.687	1.00	50.63	G
ATOM	13937	C	GLN	G	744	49.740	80.795	42.237	1.00	17.67	G
ATOM	13938	O	GLN	G	744	50.767	81.473	42.178	1.00	17.67	G
ATOM	13939	N	MET	G	745	49.661	79.693	42.972	1.00	9.28	G
ATOM	13940	CA	MET	G	745	50.808	79.220	43.727	1.00	9.28	G
ATOM	13941	CB	MET	G	745	50.420	78.855	45.153	1.00	35.53	G
ATOM	13942	CG	MET	G	745	50.362	80.045	46.064	1.00	35.53	G
ATOM	13943	SD	MET	G	745	49.823	79.622	47.713	1.00	35.53	G
ATOM	13944	CE	MET	G	745	48.263	80.588	47.859	1.00	35.53	G
ATOM	13945	C	MET	G	745	51.302	78.001	42.994	1.00	9.28	G
ATOM	13946	O	MET	G	745	50.521	77.355	42.300	1.00	9.28	G
ATOM	13947										

ATOM	13991	N	SER	G	752	64.105	63.747	47.544	1.00	34.49	G
ATOM	13992	CA	SER	G	752	65.478	63.387	47.919	1.00	34.49	G
ATOM	13993	CB	SER	G	752	66.422	64.606	47.802	1.00	22.59	G
ATOM	13994	OG	SER	G	752	66.071	65.525	46.770	1.00	22.59	G
ATOM	13995	C	SER	G	752	65.532	62.886	49.357	1.00	34.49	G
ATOM	13996	O	SER	G	752	66.478	63.201	50.074	1.00	34.49	G
ATOM	13997	N	SER	G	753	64.542	62.092	49.764	1.00	28.54	G
ATOM	13998	CA	SER	G	753	64.461	61.602	51.149	1.00	28.54	G
ATOM	13999	CB	SER	G	753	65.237	60.297	51.378	1.00	15.37	G
ATOM	14000	OG	SER	G	753	65.300	60.000	52.775	1.00	15.37	G
ATOM	14001	C	SER	G	753	65.033	62.659	52.062	1.00	28.54	G
ATOM	14002	O	SER	G	753	64.301	63.472	52.604	1.00	28.54	G
ATOM	14003	N	PHE	G	754	66.347	62.643	52.223	1.00	39.13	G
ATOM	14004	CA	PHE	G	754	67.004	63.626	53.049	1.00	39.13	G
ATOM	14005	CB	PHE	G	754	68.463	63.757	52.646	1.00	77.81	G
ATOM	14006	CG	PHE	G	754	69.311	64.402	53.689	1.00	77.81	G
ATOM	14007	CD1	PHE	G	754	70.101	63.629	54.531	1.00	77.81	G
ATOM	14008	CD2	PHE	G	754	69.291	65.772	53.862	1.00	77.81	G
ATOM	14009	CE1	PHE	G	754	70.858	64.212	55.528	1.00	77.81	G
ATOM	14010	CE2	PHE	G	754	70.041	66.361	54.854	1.00	77.81	G
ATOM	14011	CZ	PHE	G	754	70.827	65.579	55.692	1.00	77.81	G
ATOM	14012	C	PHE	G	754	66.318	64.977	52.875	1.00	39.13	G
ATOM	14013	O	PHE	G	754	66.154	65.713	53.849	1.00	39.13	G
ATOM	14014	N	ALA	G	755	65.907	65.295	51.643	1.00	38.20	G
ATOM	14015	CA	ALA	G	755	65.231	66.570	51.347	1.00	38.20	G
ATOM	14016	CB	ALA	G	755	65.105	66.761	49.844	1.00	100.07	G
ATOM	14017	C	ALA	G	755	63.851	66.699	52.001	1.00	38.20	G
ATOM	14018	O	ALA	G	755	63.132	67.675	51.800	1.00	38.20	G
ATOM	14019	N	GLN	G	756	63.494	65.693	52.779	1.00	45.28	G
ATOM	14020	CA	GLN	G	756	62.237	65.669	53.487	1.00	45.28	G
ATOM	14021	CB	GLN	G	756	61.710	64.241	53.534	1.00	49.70	G
ATOM	14022	CG	GLN	G	756	60.226	64.101	53.381	1.00	49.70	G
ATOM	14023	CD	GLN	G	756	59.795	64.491	52.010	1.00	49.70	G
ATOM	14024	OE1	GLN	G	756	60.614	64.532	51.095	1.00	49.70	G
ATOM	14025	NE2	GLN	G	756	58.503	64.771	51.841	1.00	49.70	G
ATOM	14026	C	GLN	G	756	62.609	66.115	54.892	1.00	45.28	G
ATOM	14027	O	GLN	G	756	62.048	67.067	55.432	1.00	45.28	G
ATOM	14028	N	ALA	G	757	63.577	65.410	55.467	1.00	99.84	G
ATOM	14029	CA	ALA	G	757	64.059	65.686	56.810	1.00	99.84	G
ATOM	14030	CB	ALA	G	757	65.377	64.992	57.031	1.00	100.07	G
ATOM	140										

ATOM	14075	N	MET	G	763	60.574	73.669	57.442	1.00	75.54	G
ATOM	14076	CA	MET	G	763	59.792	74.528	56.542	1.00	75.54	G
ATOM	14077	CB	MET	G	763	60.440	74.702	55.156	1.00	42.15	G
ATOM	14078	CG	MET	G	763	61.334	73.611	54.621	1.00	42.15	G
ATOM	14079	SD	MET	G	763	62.296	74.380	53.277	1.00	42.15	G
ATOM	14080	CE	MET	G	763	61.831	73.444	51.911	1.00	42.15	G
ATOM	14081	C	MET	G	763	58.327	74.152	56.387	1.00	75.54	G
ATOM	14082	O	MET	G	763	57.639	74.623	55.489	1.00	75.54	G
ATOM	14083	N	LEU	G	764	57.859	73.309	57.293	1.00	19.27	G
ATOM	14084	CA	LEU	G	764	56.462	72.879	57.324	1.00	19.27	G
ATOM	14085	CB	LEU	G	764	56.300	71.674	58.242	1.00	7.79	G
ATOM	14086	CG	LEU	G	764	54.852	71.393	58.543	1.00	7.79	G
ATOM	14087	CD1	LEU	G	764	54.225	70.721	57.366	1.00	7.79	G
ATOM	14088	CD2	LEU	G	764	54.802	70.523	59.727	1.00	7.79	G
ATOM	14089	C	LEU	G	764	55.745	74.048	57.946	1.00	19.27	G
ATOM	14090	O	LEU	G	764	56.239	74.631	58.891	1.00	19.27	G
ATOM	14091	N	SER	G	765	54.578	74.391	57.459	1.00	20.09	G
ATOM	14092	CA	SER	G	765	53.952	75.537	58.048	1.00	20.09	G
ATOM	14093	CB	SER	G	765	52.547	75.737	57.499	1.00	41.15	G
ATOM	14094	OG	SER	G	765	51.797	74.553	57.602	1.00	41.15	G
ATOM	14095	C	SER	G	765	53.928	75.456	59.561	1.00	20.09	G
ATOM	14096	O	SER	G	765	54.512	76.305	60.218	1.00	20.09	G
ATOM	14097	N	ALA	G	766	53.318	74.422	60.131	1.00	8.14	G
ATOM	14098	CA	ALA	G	766	53.192	74.341	61.593	1.00	8.14	G
ATOM	14099	CB	ALA	G	766	52.370	73.110	61.989	1.00	27.34	G
ATOM	14100	C	ALA	G	766	54.440	74.416	62.467	1.00	8.14	G
ATOM	14101	O	ALA	G	766	54.320	74.354	63.687	1.00	8.14	G
ATOM	14102	N	HIS	G	767	55.631	74.541	61.893	1.00	56.35	G
ATOM	14103	CA	HIS	G	767	56.827	74.644	62.740	1.00	56.35	G
ATOM	14104	CB	HIS	G	767	57.864	73.552	62.418	1.00	60.80	G
ATOM	14105	CG	HIS	G	767	57.333	72.153	62.488	1.00	60.80	G
ATOM	14106	CD2	HIS	G	767	57.573	71.072	61.709	1.00	60.80	G
ATOM	14107	ND1	HIS	G	767	56.457	71.736	63.466	1.00	60.80	G
ATOM	14108	CE1	HIS	G	767	56.177	70.458	63.285	1.00	60.80	G
ATOM	14109	NE2	HIS	G	767	56.842	70.031	62.227	1.00	60.80	G
ATOM	14110	C	HIS	G	767	57.495	76.001	62.560	1.00	56.35	G
ATOM	14111	O	HIS	G	767	57.615	76.789	63.504	1.00	56.35	G
ATOM	14112	N	ASN	G	768	57.920	76.266	61.331	1.00	57.30	G
ATOM	14113	CA	ASN	G	768	58.612	77.497	61.013	1.00	57.30	G
ATOM	14114	CB	ASN	G	768	59.683	77.236	59.950	1.00	100.07	G
ATOM	14115	CG	ASN	G	768	60.693	78.371	59.838	1.00	100.07	G
ATOM	14116	OD1	ASN	G	768	60.412	79.416	59.248	1.00	100.07	G
ATOM	14117	ND2	ASN	G	768	61.878	78.168	60.416	1.00	100.07	G
ATOM	14118	C	ASN	G	768	57.704	78.608	60.555	1.00	57.30	G
ATOM	14119	O	ASN	G	768	58.066	79.373	59.668	1.00	57.30	G
ATOM	14120	N	LEU	G	769	56.520	78.701	61.142	1.00	57.03	G
ATOM	14121	CA	LEU	G	769	55.618	79.780	60.769	1.00	57.03	G
ATOM	14122	CB	LEU	G	769	54.343	79.244	60.091	1.00	100.07	G
ATOM	14123	CG	LEU	G	769	54.305	79.352	58.553	1.00	100.07	G
ATOM	14124	CD1	LEU	G	769	53.026	78.778	57.965	1.00	100.07	G
ATOM	14125	CD2	LEU	G	769	54.424	80.815	58.179	1.00	100.07	G
ATOM	14126	C	LEU	G	769	55.270	80.552	62.023	1.00	57.03	G
ATOM	14127	O	LEU	G	769	55.384	81.781	62.077	1.00	57.03	G
ATOM	14128	N	LEU	G	770	54.868	79.816	63.043	1.00	76.29	G
ATOM	14129	CA	LEU	G	770	54.500	80.419	64.304	1.00	76.29	G
ATOM	14130	CB	LEU	G	770	54.107	79.308	65.277	1.00	85.89	G
ATOM	14131	CG	LEU	G	770	53.001	78.347	64.805	1.00	85.89	G
ATOM	14132	CD1	LEU	G	770	52.638	78.556	63.339	1.00	85.89	G
ATOM	14133	CD2	LEU	G	770	53.476	76.927	65.023	1.00	85.89	G
ATOM	14134	C	LEU	G	770	55.709	81.214	64.803	1.00	76.29	G
ATOM	14135	O	LEU	G	770	56.746	80.632	65.153	1.00	76.29	G
ATOM	14136	N	SER	G	771	55.567	82.540	64.824	1.00	79.21	G
ATOM	14137	CA	SER	G	771	56.645	83.434	65.241	1.00	79.21	G
ATOM	14138	CB	SER	G	771	57.364	82.892	66.490	1.00	8.81	G
ATOM	14139	OG	SER	G	771	56.532	82.849	67.636	1.00	8.81	G
ATOM	14140	C	SER	G	771	57.626	83.483	64.066	1.00	79.21	G
ATOM	14141	O	SER	G	771	58.483	82.614	63.933	1.00	79.21	G
ATOM	14142	N	PRO	G	772	57.514	84.501	63.197	1.00	69.42	G
ATOM	14143	CD	PRO	G	772	56.537	85.600	63.224	1.00	100.07	G
ATOM	14144	CA	PRO	G	772	58.390	84.648	62.032	1.00	69.42	G
ATOM	14145	CB	PRO	G	772	57.597	85.572	61.133	1.00	100.07	G
ATOM	14146	CG	PRO	G	772	57.065	86.533	62.117	1.00	100.07	G
ATOM	14147	C	PRO	G	772	59.758	85.232	62.317	1.00	69.42	G
ATOM	14148	O	PRO	G	772	60.314	85.080	63.404	1.00	69.42	G
ATOM	14149	N	ALA	G	773	60.273	85.936	61.317	1.00	37.24	G
ATOM	14150	CA	ALA	G	773	61.582	86.536	61.413	1.00	37.24	G
ATOM	14151	CB	ALA	G	773	62.305	86.331	60.113	1.00	5.07	G
ATOM	14152	C	ALA	G	773	61.520	88.018	61.793	1.00	37.24	G
ATOM	14153	O	ALA	G	773	61.762	88.907	60.982	1.00	37.24	G
ATOM	14154	N	SER	G	774	61.165	88.246	63.057	1.00	52.69	G
ATOM	14155	CA	SER	G	774	61.052	89.566	63.696	1.00	52.69	G
ATOM	14156	CB	SER	G	774	60.253	90.550	62.852	1.00	39.48	G
ATOM	14157	OG	SER	G	774	61.139	91.185	61.940	1.00	39.48	G
ATOM	14158	C	SER	G	774	60.426	89.423	65.068	1.00	52.69	G

ATOM	14159	O	SER	G	774	59.937	90.391	65.643	1.00	52.69	G
ATOM	14160	N	GLY	G	775	60.437	88.178	65.549	1.00	44.33	G
ATOM	14161	CA	GLY	G	775	59.961	87.832	66.873	1.00	44.33	G
ATOM	14162	C	GLY	G	775	58.526	87.526	67.238	1.00	44.33	G
ATOM	14163	O	GLY	G	775	58.315	86.602	68.023	1.00	44.33	G
ATOM	14164	N	GLU	G	776	57.554	88.276	66.710	1.00	27.43	G
ATOM	14165	CA	GLU	G	776	56.147	88.065	67.082	1.00	27.43	G
ATOM	14166	CB	GLU	G	776	55.523	89.395	67.498	1.00	93.34	G
ATOM	14167	CG	GLU	G	776	55.346	90.388	66.386	1.00	93.34	G
ATOM	14168	CD	GLU	G	776	54.658	91.635	66.877	1.00	93.34	G
ATOM	14169	OE1	GLU	G	776	53.521	91.526	67.376	1.00	93.34	G
ATOM	14170	OE2	GLU	G	776	55.255	92.723	66.777	1.00	93.34	G
ATOM	14171	C	GLU	G	776	55.239	87.373	66.065	1.00	27.43	G
ATOM	14172	O	GLU	G	776	55.429	87.505	64.881	1.00	27.43	G
ATOM	14173	N	PRO	G	777	54.203	86.659	66.536	1.00	27.40	G
ATOM	14174	CD	PRO	G	777	53.578	86.842	67.855	1.00	16.98	G
ATOM	14175	CA	PRO	G	777	53.277	85.943	65.658	1.00	27.40	G
ATOM	14176	CB	PRO	G	777	51.962	85.949	66.450	1.00	16.98	G
ATOM	14177	CG	PRO	G	777	52.139	87.022	67.470	1.00	16.98	G
ATOM	14178	C	PRO	G	777	53.088	86.456	64.240	1.00	27.40	G
ATOM	14179	O	PRO	G	777	52.856	87.634	64.032	1.00	27.40	G
ATOM	14180	N	LEU	G	778	53.205	85.555	63.267	1.00	23.68	G
ATOM	14181	CA	LEU	G	778	52.998	85.886	61.863	1.00	23.68	G
ATOM	14182	CB	LEU	G	778	54.217	85.521	61.027	1.00	5.44	G
ATOM	14183	CG	LEU	G	778	54.227	85.722	59.508	1.00	5.44	G
ATOM	14184	CD1	LEU	G	778	52.972	86.414	59.067	1.00	5.44	G
ATOM	14185	CD2	LEU	G	778	55.450	86.545	59.083	1.00	5.44	G
ATOM	14186	C	LEU	G	778	51.817	85.017	61.480	1.00	23.68	G
ATOM	14187	O	LEU	G	778	51.045	85.367	60.601	1.00	23.68	G
ATOM	14188	N	ALA	G	779	51.673	83.880	62.163	1.00	27.77	G
ATOM	14189	CA	ALA	G	779	50.549	82.972	61.921	1.00	27.77	G
ATOM	14190	CB	ALA	G	779	50.931	81.548	62.305	1.00	41.16	G
ATOM	14191	C	ALA	G	779	49.364	83.443	62.772	1.00	27.77	G
ATOM	14192	O	ALA	G	779	48.674	82.643	63.404	1.00	27.77	G
ATOM	14193	N	LYS	G	780	49.140	84.753	62.797	1.00	5.38	G
ATOM	14194	CA	LYS	G	780	48.051	85.290	63.594	1.00	5.38	G
ATOM	14195	CB	LYS	G	780	48.168	86.816	63.816	1.00	69.97	G
ATOM	14196	CG	LYS	G	780	49.285	87.553	63.080	1.00	69.97	G
ATOM	14197	CD	LYS	G	780	49.016	87.666	61.589	1.00	69.97	G
ATOM	14198	CE	LYS	G	780	50.089	88.495	60.888	1.00	69.97	G
ATOM	14199	NZ	LYS	G	780	49.909	88.533	59.404	1.00	69.97	G
ATOM	14200	C	LYS	G	780	46.760	84.994	62.894	1.00	5.38	G
ATOM	14201	O	LYS	G	780	46.738	84.773	61.675	1.00	5.38	G
ATOM	14202	N	PRO	G	781	45.671	84.945	63.664	1.00	12.75	G
ATOM	14203	CD	PRO	G	781	45.693	84.795	65.129	1.00	21.48	G
ATOM	14204	CA	PRO	G	781	44.338	84.678	63.134	1.00	12.75	G
ATOM	14205	CB	PRO	G	781	43.561	84.248	64.383	1.00	21.48	G
ATOM	14206	CG	PRO	G	781	44.251	84.947	65.496	1.00	21.48	G
ATOM	14207	C	PRO	G	781	43.794	85.954	62.482	1.00	12.75	G
ATOM	14208	O	PRO	G	781	43.331	86.868	63.171	1.00	12.75	G
ATOM	14209	N	SER	G	782	43.846	86.005	61.153	1.00	11.11	G
ATOM	14210	CA	SER	G	782	43.402	87.188	60.423	1.00	11.11	G
ATOM	14211	CB	SER	G	782	43.968	87.192	59.005	1.00	100.07	G
ATOM	14212	OG	SER	G	782	43.216	86.339	58.165	1.00	100.07	G
ATOM	14213	C	SER	G	782	41.905	87.380	60.340	1.00	11.11	G
ATOM	14214	O	SER	G	782	41.138	86.734	61.056	1.00	11.11	G
ATOM	14215	N	ALA	G	783	41.523	88.300	59.458	1.00	51.63	G
ATOM	14216	CA	ALA	G	783	40.143	88.694	59.193	1.00	51.63	G
ATOM	14217	CB	ALA	G	783	40.061	89.331	57.802	1.00	58.44	G
ATOM	14218	C	ALA	G	783	39.150	87.550	59.294	1.00	51.63	G
ATOM	14219	O	ALA	G	783	39.518	86.429	59.615	1.00	51.63	G
ATOM	14220	N	ASP	G	784	37.882	87.849	59.037	1.00	50.55	G
ATOM	14221	CA	ASP	G	784	36.825	86.843	59.044	1.00	50.55	G
ATOM	14222	CB	ASP	G	784	36.885	86.065	57.713	1.00	57.04	G
ATOM	14223	CG	ASP	G	784	35.519	85.896	57.042	1.00	57.04	G
ATOM	14224	OD1	ASP	G	784	34.718	85.065	57.512	1.00	57.04	G
ATOM	14225	OD2	ASP	G	784	35.248	86.586	56.031	1.00	57.04	G
ATOM	14226	C	ASP	G	784	36.942	85.870	60.219	1.00	50.55	G
ATOM	14227	O	ASP	G	784	36.324	84.813	60.198	1.00	50.55	G
ATOM	14228	N	ILE	G	785	37.724	86.210	61.239	1.00	32.32	G
ATOM	14229	CA	ILE	G	785	37.899	85.312	62.382	1.00	32.32	G
ATOM	14230	CB	ILE	G	785	39.216	84.523	62.272	1.00	18.63	G
ATOM	14231	CG2	ILE	G	785	39.408	83.596	63.472	1.00	18.63	G
ATOM	14232	CG1	ILE	G	785	39.175	83.700	60.989	1.00	18.63	G
ATOM	14233	CD	ILE	G	785	40.440	82.951	60.689	1.00	18.63	G
ATOM	14234	C	ILE	G	785	37.940	86.166	63.619	1.00	32.32	G
ATOM	14235	O	ILE	G	785	37.302	85.880	64.653	1.00	32.32	G
ATOM	14236	N	ILE	G	786	38.722	87.224	63.524	1.00	16.56	G
ATOM	14237	CA	ILE	G	786	38.784	88.121	64.635	1.00	16.56	G
ATOM	14238	CB	ILE	G	786	39.721	89.272	64.332	1.00	16.24	G
ATOM	14239	CG2	ILE	G	786	39.651	90.296	65.456	1.00	16.24	G
ATOM	14240	CG1	ILE	G	786	41.144	88.720	64.118	1.00	16.24	G
ATOM	14241	CD	ILE	G	786	41.856	89.321	62.903	1.00	16.24	G
ATOM	14242	C	ILE	G	786	37.336	88.560	64.681	1.00	16.56	G

ATOM	14243	O	ILE	G	786	36.772	88.712	65.752	1.00	16.56	G
ATOM	14244	N	LEU	G	787	36.714	88.678	63.504	1.00	29.58	G
ATOM	14245	CA	LEU	G	787	35.304	89.086	63.422	1.00	29.58	G
ATOM	14246	CB	LEU	G	787	34.827	89.178	61.976	1.00	21.67	G
ATOM	14247	CG	LEU	G	787	33.699	90.214	61.913	1.00	21.67	G
ATOM	14248	CD1	LEU	G	787	33.549	90.786	60.513	1.00	21.67	G
ATOM	14249	CD2	LEU	G	787	32.427	89.577	62.384	1.00	21.67	G
ATOM	14250	C	LEU	G	787	34.413	88.109	64.175	1.00	29.58	G
ATOM	14251	O	LEU	G	787	33.492	88.493	64.914	1.00	29.58	G
ATOM	14252	N	GLY	G	788	34.690	86.833	63.974	1.00	35.27	G
ATOM	14253	CA	GLY	G	788	33.924	85.829	64.669	1.00	35.27	G
ATOM	14254	C	GLY	G	788	34.175	86.014	66.142	1.00	35.27	G
ATOM	14255	O	GLY	G	788	33.361	86.603	66.838	1.00	35.27	G
ATOM	14256	N	LEU	G	789	35.327	85.548	66.600	1.00	31.55	G
ATOM	14257	CA	LEU	G	789	35.681	85.621	68.008	1.00	31.55	G
ATOM	14258	CB	LEU	G	789	37.169	85.334	68.159	1.00	14.08	G
ATOM	14259	CG	LEU	G	789	37.534	83.938	67.655	1.00	14.08	G
ATOM	14260	CD1	LEU	G	789	39.001	83.644	67.897	1.00	14.08	G
ATOM	14261	CD2	LEU	G	789	36.686	82.918	68.366	1.00	14.08	G
ATOM	14262	C	LEU	G	789	35.303	86.912	68.744	1.00	31.55	G
ATOM	14263	O	LEU	G	789	35.149	86.915	69.976	1.00	31.55	G
ATOM	14264	N	TYR	G	790	35.146	88.008	68.003	1.00	24.55	G
ATOM	14265	CA	TYR	G	790	34.769	89.272	68.625	1.00	24.55	G
ATOM	14266	CB	TYR	G	790	34.790	90.401	67.606	1.00	16.62	G
ATOM	14267	CG	TYR	G	790	34.931	91.765	68.214	1.00	16.62	G
ATOM	14268	CD1	TYR	G	790	34.658	92.901	67.478	1.00	16.62	G
ATOM	14269	CE1	TYR	G	790	34.828	94.155	68.016	1.00	16.62	G
ATOM	14270	CD2	TYR	G	790	35.371	91.916	69.516	1.00	16.62	G
ATOM	14271	CE2	TYR	G	790	35.549	93.161	70.074	1.00	16.62	G
ATOM	14272	CZ	TYR	G	790	35.273	94.284	69.322	1.00	16.62	G
ATOM	14273	OH	TYR	G	790	35.457	95.541	69.878	1.00	16.62	G
ATOM	14274	C	TYR	G	790	33.350	89.074	69.112	1.00	24.55	G
ATOM	14275	O	TYR	G	790	33.121	88.743	70.273	1.00	24.55	G
ATOM	14276	N	TYR	G	791	32.409	89.262	68.192	1.00	26.86	G
ATOM	14277	CA	TYR	G	791	30.979	89.096	68.444	1.00	26.86	G
ATOM	14278	CB	TYR	G	791	30.298	88.618	67.166	1.00	36.91	G
ATOM	14279	CG	TYR	G	791	29.405	89.611	66.493	1.00	36.91	G
ATOM	14280	CD1	TYR	G	791	29.922	90.593	65.666	1.00	36.91	G
ATOM	14281	CE1	TYR	G	791	29.080	91.494	65.007	1.00	36.91	G
ATOM	14282	CD2	TYR	G	791	28.028	89.546	66.659	1.00	36.91	G
ATOM	14283	CE2	TYR	G	791	27.173	90.440	66.012	1.00	36.91	G
ATOM	14284	CZ	TYR	G	791	27.700	91.416	65.184	1.00	36.91	G
ATOM	14285	OH	TYR	G	791	26.853	92.313	64.542	1.00	36.91	G
ATOM	14286	C	TYR	G	791	30.660	88.091	69.562	1.00	26.86	G
ATOM	14287	O	TYR	G	791	29.657	88.229	70.256	1.00	26.86	G
ATOM	14288	N	ILE	G	792	31.501	87.070	69.710	1.00	27.61	G
ATOM	14289	CA	ILE	G	792	31.312	86.037	70.717	1.00	27.61	G
ATOM	14290	CB	ILE	G	792	32.137	84.780	70.365	1.00	95.47	G
ATOM	14291	CG2	ILE	G	792	31.735	83.605	71.237	1.00	95.47	G
ATOM	14292	CG1	ILE	G	792	31.895	84.407	68.911	1.00	95.47	G
ATOM	14293	CD	ILE	G	792	30.433	84.282	68.576	1.00	95.47	G
ATOM	14294	C	ILE	G	792	31.783	86.557	72.059	1.00	27.61	G
ATOM	14295	O	ILE	G	792	31.990	85.792	72.997	1.00	27.61	G
ATOM	14296	N	THR	G	793	31.956	87.864	72.166	1.00	29.38	G
ATOM	14297	CA	THR	G	793	32.438	88.415	73.419	1.00	29.38	G
ATOM	14298	CB	THR	G	793	33.967	88.257	73.523	1.00	26.93	G
ATOM	14299	OG1	THR	G	793	34.437	87.284	72.570	1.00	26.93	G
ATOM	14300	CG2	THR	G	793	34.340	87.825	74.924	1.00	26.93	G
ATOM	14301	C	THR	G	793	32.118	89.888	73.595	1.00	29.38	G
ATOM	14302	O	THR	G	793	32.703	90.727	72.939	1.00	29.38	G
ATOM	14303	N	GLN	G	794	31.194	90.218	74.477	1.00	34.55	G
ATOM	14304	CA	GLN	G	794	30.890	91.621	74.685	1.00	34.55	G
ATOM	14305	CB	GLN	G	794	30.151	92.188	73.469	1.00	41.57	G
ATOM	14306	CG	GLN	G	794	31.074	92.784	72.417	1.00	41.57	G
ATOM	14307	CD	GLN	G	794	31.762	94.075	72.880	1.00	41.57	G
ATOM	14308	OE1	GLN	G	794	32.257	94.173	74.012	1.00	41.57	G
ATOM	14309	NE2	GLN	G	794	31.808	95.069	71.989	1.00	41.57	G
ATOM	14310	C	GLN	G	794	30.095	91.910	75.949	1.00	34.55	G
ATOM	14311	O	GLN	G	794	30.647	92.188	77.021	1.00	34.55	G
ATOM	14312	N	VAL	G	795	28.790	91.812	75.785	1.00	69.62	G
ATOM	14313	CA	VAL	G	795	27.780	92.065	76.791	1.00	69.62	G
ATOM	14314	CB	VAL	G	795	28.338	92.647	78.104	1.00	60.61	G
ATOM	14315	CG1	VAL	G	795	27.197	93.133	78.987	1.00	60.61	G
ATOM	14316	CG2	VAL	G	795	29.097	91.565	78.863	1.00	60.61	G
ATOM	14317	C	VAL	G	795	27.038	93.105	75.999	1.00	69.62	G
ATOM	14318	O	VAL	G	795	27.174	93.143	74.776	1.00	69.62	G
ATOM	14319	N	ARG	G	796	26.280	93.975	76.634	1.00	47.34	G
ATOM	14320	CA	ARG	G	796	25.558	94.902	75.806	1.00	47.34	G
ATOM	14321	CB	ARG	G	796	24.277	94.237	75.307	1.00	79.01	G
ATOM	14322	CG	ARG	G	796	24.422	92.894	74.644	1.00	79.01	G
ATOM	14323	CD	ARG	G	796	23.335	92.822	73.633	1.00	79.01	G
ATOM	14324	NE	ARG	G	796	23.152	91.514	73.040	1.00	79.01	G
ATOM	14325	CZ	ARG	G	796	22.372	91.311	71.986	1.00	79.01	G
ATOM	14326	NH1	ARG	G	796	21.735	92.339	71.441	1.00	79.01	G

ATOM	14327	NH2	ARG	G	796	22.216	90.093	71.485	1.00	79.01	G
ATOM	14328	C	ARG	G	796	25.181	96.245	76.383	1.00	47.34	G
ATOM	14329	O	ARG	G	796	25.818	96.790	77.286	1.00	47.34	G
ATOM	14330	N	ALA	G	797	24.097	96.743	75.802	1.00	99.50	G
ATOM	14331	CA	ALA	G	797	23.480	98.002	76.121	1.00	99.50	G
ATOM	14332	CB	ALA	G	797	24.266	99.138	75.489	1.00	100.07	G
ATOM	14333	C	ALA	G	797	22.105	97.880	75.478	1.00	99.50	G
ATOM	14334	O	ALA	G	797	21.772	98.619	74.549	1.00	99.50	G
ATOM	14335	N	ALA	G	798	21.327	96.903	75.937	1.00	95.05	G
ATOM	14336	CA	ALA	G	798	19.981	96.720	75.410	1.00	95.05	G
ATOM	14337	CB	ALA	G	798	19.300	95.529	76.088	1.00	12.09	G
ATOM	14338	C	ALA	G	798	19.280	98.029	75.769	1.00	95.05	G
ATOM	14339	O	ALA	G	798	18.342	98.474	75.095	1.00	95.05	G
ATOM	14340	N	ALA	G	799	19.785	98.635	76.845	1.00	100.07	G
ATOM	14341	CA	ALA	G	799	19.321	99.911	77.383	1.00	100.07	G
ATOM	14342	CB	ALA	G	799	19.820	101.055	76.495	1.00	87.62	G
ATOM	14343	C	ALA	G	799	17.819	100.069	77.628	1.00	100.07	G
ATOM	14344	O	ALA	G	799	16.985	99.772	76.762	1.00	100.07	G
ATOM	14345	N	ALA	G	800	17.498	100.543	78.831	1.00	99.90	G
ATOM	14346	CA	ALA	G	800	16.128	100.814	79.244	1.00	99.90	G
ATOM	14347	CB	ALA	G	800	15.501	99.598	79.861	1.00	61.20	G
ATOM	14348	C	ALA	G	800	16.229	101.932	80.266	1.00	99.90	G
ATOM	14349	O	ALA	G	800	15.510	102.930	80.181	1.00	99.90	G
ATOM	14350	N	GLY	G	801	17.140	101.770	81.224	1.00	82.64	G
ATOM	14351	CA	GLY	G	801	17.329	102.799	82.235	1.00	82.64	G
ATOM	14352	C	GLY	G	801	17.659	102.317	83.631	1.00	82.64	G
ATOM	14353	O	GLY	G	801	16.895	101.563	84.221	1.00	82.64	G
ATOM	14354	N	ALA	G	802	18.787	102.764	84.172	1.00	81.10	G
ATOM	14355	CA	ALA	G	802	19.189	102.352	85.511	1.00	81.10	G
ATOM	14356	CB	ALA	G	802	20.520	103.002	85.881	1.00	95.74	G
ATOM	14357	C	ALA	G	802	18.131	102.673	86.575	1.00	81.10	G
ATOM	14358	O	ALA	G	802	17.716	103.823	86.743	1.00	81.10	G
ATOM	14359	N	GLY	G	803	17.695	101.635	87.283	1.00	90.76	G
ATOM	14360	CA	GLY	G	803	16.710	101.797	88.335	1.00	90.76	G
ATOM	14361	C	GLY	G	803	17.317	101.362	89.660	1.00	90.76	G
ATOM	14362	O	GLY	G	803	18.458	100.899	89.707	1.00	90.76	G
ATOM	14363	N	ALA	G	804	16.555	101.508	90.741	1.00	100.07	G
ATOM	14364	CA	ALA	G	804	17.027	101.128	92.075	1.00	100.07	G
ATOM	14365	CB	ALA	G	804	16.739	102.251	93.079	1.00	100.07	G
ATOM	14366	C	ALA	G	804	16.424	99.814	92.579	1.00	100.07	G
ATOM	14367	O	ALA	G	804	15.292	99.441	92.241	1.00	100.07	G
ATOM	14368	N	ALA	G	805	17.199	99.122	93.403	1.00	100.07	G
ATOM	14369	CA	ALA	G	805	16.786	97.853	93.966	1.00	100.07	G
ATOM	14370	CB	ALA	G	805	17.143	96.723	93.017	1.00	100.07	G
ATOM	14371	C	ALA	G	805	17.550	97.702	95.257	1.00	100.07	G
ATOM	14372	O	ALA	G	805	17.021	97.208	96.251	1.00	100.07	G
ATOM	14373	N	ALA	G	806	18.804	98.147	95.220	1.00	89.04	G
ATOM	14374	CA	ALA	G	806	19.717	98.081	96.362	1.00	89.04	G
ATOM	14375	CB	ALA	G	806	19.110	98.779	97.578	1.00	100.07	G
ATOM	14376	C	ALA	G	806	19.995	96.622	96.676	1.00	89.04	G
ATOM	14377	O	ALA	G	806	20.928	96.298	97.417	1.00	89.04	G
ATOM	14378	N	ALA	G	807	19.172	95.758	96.085	1.00	100.07	G
ATOM	14379	CA	ALA	G	807	19.266	94.314	96.266	1.00	100.07	G
ATOM	14380	CB	ALA	G	807	19.533	93.989	97.738	1.00	100.07	G
ATOM	14381	C	ALA	G	807	18.015	93.553	95.780	1.00	100.07	G
ATOM	14382	O	ALA	G	807	16.881	93.842	96.188	1.00	100.07	G
ATOM	14383	N	ALA	G	808	18.256	92.575	94.908	1.00	100.07	G
ATOM	14384	CA	ALA	G	808	17.234	91.712	94.324	1.00	100.07	G
ATOM	14385	CB	ALA	G	808	17.155	90.424	95.117	1.00	18.34	G
ATOM	14386	C	ALA	G	808	15.836	92.291	94.139	1.00	100.07	G
ATOM	14387	O	ALA	G	308	15.530	92.860	93.089	1.00	100.07	G
ATOM	14388	N	ALA	G	809	14.987	92.141	95.150	1.00	92.40	G
ATOM	14389	CA	ALA	G	809	13.612	92.618	95.060	1.00	92.40	G
ATOM	14390	CB	ALA	G	809	13.579	94.135	94.867	1.00	85.72	G
ATOM	14391	C	ALA	G	809	12.973	91.905	93.862	1.00	92.40	G
ATOM	14392	O	ALA	G	809	13.635	91.126	93.165	1.00	92.40	G
ATOM	14393	N	ALA	G	810	11.692	92.156	93.621	1.00	99.97	G
ATOM	14394	CA	ALA	G	810	11.010	91.508	92.507	1.00	99.97	G
ATOM	14395	CB	ALA	G	810	9.553	91.232	92.867	1.00	100.07	G
ATOM	14396	C	ALA	G	810	11.090	92.336	91.236	1.00	99.97	G
ATOM	14397	O	ALA	G	810	10.547	91.943	90.208	1.00	99.97	G
ATOM	14398	N	ALA	G	811	11.769	93.480	91.310	1.00	87.38	G
ATOM	14399	CA	ALA	G	811	11.933	94.353	90.151	1.00	87.38	G
ATOM	14400	CB	ALA	G	811	12.874	95.495	90.475	1.00	86.01	G
ATOM	14401	C	ALA	G	811	12.492	93.531	89.000	1.00	87.38	G
ATOM	14402	O	ALA	G	811	12.590	94.010	87.868	1.00	87.38	G
ATOM	14403	N	ALA	G	812	12.880	92.294	89.312	1.00	100.07	G
ATOM	14404	CA	ALA	G	812	13.397	91.377	88.309	1.00	100.07	G
ATOM	14405	CB	ALA	G	812	13.622	89.971	88.921	1.00	22.09	G
ATOM	14406	C	ALA	G	812	12.292	91.343	87.257	1.00	100.07	G
ATOM	14407	O	ALA	G	812	12.359	92.051	86.249	1.00	100.07	G
ATOM	14408	N	ALA	G	813	11.259	90.549	87.516	1.00	77.38	G
ATOM	14409	CA	ALA	G	813	10.137	90.454	86.593	1.00	77.38	G
ATOM	14410	CB	ALA	G	813	9.417	89.119	86.760	1.00	100.07	G

ATOM	14411	C	ALA	G	813	9.174	91.602	86.837	1.00	77.38	G
ATOM	14412	O	ALA	G	813	8.318	91.879	85.999	1.00	77.38	G
ATOM	14413	N	ALA	G	814	9.308	92.263	87.988	1.00	98.94	G
ATOM	14414	CA	ALA	G	814	8.441	93.394	88.314	1.00	98.94	G
ATOM	14415	CB	ALA	G	814	8.872	94.060	89.609	1.00	60.22	G
ATOM	14416	C	ALA	G	814	8.634	94.349	87.170	1.00	98.94	G
ATOM	14417	O	ALA	G	814	7.774	95.176	86.868	1.00	98.94	G
ATOM	14418	N	ALA	G	815	9.795	94.213	86.543	1.00	100.07	G
ATOM	14419	CA	ALA	G	815	10.169	95.025	85.405	1.00	100.07	G
ATOM	14420	CB	ALA	G	815	11.559	95.595	85.616	1.00	100.07	G
ATOM	14421	C	ALA	G	815	10.151	94.110	84.194	1.00	100.07	G
ATOM	14422	O	ALA	G	815	9.588	94.445	83.148	1.00	100.07	G
ATOM	14423	N	ALA	G	816	10.782	92.951	84.345	1.00	69.38	G
ATOM	14424	CA	ALA	G	816	10.810	91.985	83.268	1.00	69.38	G
ATOM	14425	CB	ALA	G	816	11.576	90.745	83.684	1.00	100.07	G
ATOM	14426	C	ALA	G	816	9.352	91.653	83.034	1.00	69.38	G
ATOM	14427	O	ALA	G	816	8.793	90.752	83.668	1.00	69.38	G
ATOM	14428	N	ALA	G	817	8.740	92.416	82.137	1.00	100.07	G
ATOM	14429	CA	ALA	G	817	7.335	92.256	81.788	1.00	100.07	G
ATOM	14430	CB	ALA	G	817	6.468	92.273	83.047	1.00	100.07	G
ATOM	14431	C	ALA	G	817	6.952	93.413	80.874	1.00	100.07	G
ATOM	14432	O	ALA	G	817	5.852	93.436	80.317	1.00	100.07	G
ATOM	14433	N	ALA	G	818	7.877	94.365	80.744	1.00	83.84	G
ATOM	14434	CA	ALA	G	818	7.718	95.560	79.913	1.00	83.84	G
ATOM	14435	CB	ALA	G	818	6.302	96.119	80.026	1.00	100.07	G
ATOM	14436	C	ALA	G	818	8.723	96.608	80.375	1.00	83.84	G
ATOM	14437	O	ALA	G	818	8.722	97.012	81.541	1.00	83.84	G
ATOM	14438	N	GLY	G	819	9.585	97.038	79.459	1.00	92.75	G
ATOM	14439	CA	GLY	G	819	10.585	98.037	79.794	1.00	92.75	G
ATOM	14440	C	GLY	G	819	11.473	97.667	80.972	1.00	92.75	G
ATOM	14441	O	GLY	G	819	11.377	96.567	81.517	1.00	92.75	G
ATOM	14442	N	ALA	G	820	12.345	98.594	81.358	1.00	71.25	G
ATOM	14443	CA	ALA	G	820	13.262	98.387	82.475	1.00	71.25	G
ATOM	14444	CB	ALA	G	820	12.479	98.234	83.759	1.00	78.61	G
ATOM	14445	C	ALA	G	820	14.178	97.183	82.286	1.00	71.25	G
ATOM	14446	O	ALA	G	820	14.258	96.322	83.164	1.00	71.25	G
ATOM	14447	N	ALA	G	821	14.881	97.149	81.150	1.00	100.07	G
ATOM	14448	CA	ALA	G	821	15.809	96.063	80.788	1.00	100.07	G
ATOM	14449	CB	ALA	G	821	16.166	96.157	79.296	1.00	100.07	G
ATOM	14450	C	ALA	G	821	17.099	95.975	81.618	1.00	100.07	G
ATOM	14451	O	ALA	G	821	17.278	96.694	82.605	1.00	100.07	G
ATOM	14452	N	ALA	G	822	17.999	95.089	81.196	1.00	100.07	G
ATOM	14453	CA	ALA	G	822	19.264	94.872	81.899	1.00	100.07	G
ATOM	14454	CB	ALA	G	822	19.765	93.457	81.611	1.00	100.07	G
ATOM	14455	C	ALA	G	822	20.361	95.897	81.574	1.00	100.07	G
ATOM	14456	O	ALA	G	822	21.342	95.577	80.890	1.00	100.07	G
ATOM	14457	N	ALA	G	823	20.206	97.118	82.082	1.00	99.87	G
ATOM	14458	CA	ALA	G	823	21.179	98.177	81.831	1.00	99.87	G
ATOM	14459	CB	ALA	G	823	20.653	99.114	80.741	1.00	100.07	G
ATOM	14460	C	ALA	G	823	21.493	98.973	83.094	1.00	99.87	G
ATOM	14461	O	ALA	G	823	21.013	100.096	83.251	1.00	99.87	G
ATOM	14462	N	ALA	G	824	22.302	98.387	83.978	1.00	100.07	G
ATOM	14463	CA	ALA	G	824	22.710	98.998	85.251	1.00	100.07	G
ATOM	14464	CB	ALA	G	824	22.729	100.523	85.143	1.00	59.03	G
ATOM	14465	C	ALA	G	824	21.851	98.569	86.449	1.00	100.07	G
ATOM	14466	O	ALA	G	824	22.259	97.685	87.200	1.00	100.07	G
ATOM	14467	N	ALA	G	825	20.676	99.184	86.622	1.00	78.72	G
ATOM	14468	CA	ALA	G	825	19.775	98.866	87.742	1.00	78.72	G
ATOM	14469	CB	ALA	G	825	18.897	97.659	87.411	1.00	5.07	G
ATOM	14470	C	ALA	G	825	20.590	98.589	89.001	1.00	78.72	G
ATOM	14471	O	ALA	G	825	21.112	97.487	89.189	1.00	78.72	G
ATOM	14472	N	ALA	G	826	20.673	99.594	89.866	1.00	100.07	G
ATOM	14473	CA	ALA	G	826	21.458	99.524	91.096	1.00	100.07	G
ATOM	14474	CB	ALA	G	826	21.509	100.907	91.732	1.00	100.07	G
ATOM	14475	C	ALA	G	826	21.106	98.491	92.165	1.00	100.07	G
ATOM	14476	O	ALA	G	826	20.024	97.899	92.183	1.00	100.07	G
ATOM	14477	N	ALA	G	827	22.073	98.302	93.058	1.00	100.00	G
ATOM	14478	CA	ALA	G	827	21.997	97.393	94.199	1.00	100.00	G
ATOM	14479	CB	ALA	G	827	21.977	95.938	93.736	1.00	59.82	G
ATOM	14480	C	ALA	G	827	23.269	97.697	94.995	1.00	100.00	G
ATOM	14481	O	ALA	G	827	23.587	98.868	95.211	1.00	100.00	G
ATOM	14482	N	ALA	G	828	23.996	96.667	95.426	1.00	100.07	G
ATOM	14483	CA	ALA	G	828	25.246	96.877	96.172	1.00	100.07	G
ATOM	14484	CB	ALA	G	828	25.485	95.734	97.170	1.00	100.07	G
ATOM	14485	C	ALA	G	828	26.393	96.951	95.161	1.00	100.07	G
ATOM	14486	O	ALA	G	828	27.516	97.357	95.491	1.00	100.07	G
ATOM	14487	N	ALA	G	829	26.072	96.543	93.930	1.00	100.07	G
ATOM	14488	CA	ALA	G	829	26.980	96.545	92.782	1.00	100.07	G
ATOM	14489	CB	ALA	G	829	27.730	95.209	92.674	1.00	46.71	G
ATOM	14490	C	ALA	G	829	26.099	96.757	91.548	1.00	100.07	G
ATOM	14491	O	ALA	G	829	26.581	97.145	90.484	1.00	100.07	G
ATOM	14492	N	ALA	G	830	24.801	96.502	91.726	1.00	98.89	G
ATOM	14493	CA	ALA	G	830	23.780	96.640	90.683	1.00	98.89	G
ATOM	14494	CB	ALA	G	830	24.032	97.918	89.862	1.00	32.06	G

ATOM	14495	C	ALA	G	830	23.721	95.410	89.767	1.00	98.89	G
ATOM	14496	O	ALA	G	830	24.370	94.395	90.037	1.00	98.89	G
ATOM	14497	N	GLY	G	831	22.918	95.489	88.707	1.00	99.91	G
ATOM	14498	CA	GLY	G	831	22.836	94.380	87.769	1.00	99.91	G
ATOM	14499	C	GLY	G	831	21.501	93.698	87.547	1.00	99.91	G
ATOM	14500	O	GLY	G	831	20.659	93.637	88.437	1.00	99.91	G
ATOM	14501	N	ALA	G	832	21.316	93.177	86.339	1.00	100.01	G
ATOM	14502	CA	ALA	G	832	20.098	92.467	85.977	1.00	100.01	G
ATOM	14503	CB	ALA	G	832	19.354	93.219	84.891	1.00	84.40	G
ATOM	14504	C	ALA	G	832	20.487	91.072	85.490	1.00	100.01	G
ATOM	14505	O	ALA	G	832	19.935	90.551	84.517	1.00	100.01	G
ATOM	14506	N	ALA	G	833	21.476	90.495	86.165	1.00	78.13	G
ATOM	14507	CA	ALA	G	833	21.956	89.155	85.865	1.00	78.13	G
ATOM	14508	CB	ALA	G	833	23.428	89.170	85.624	1.00	20.38	G
ATOM	14509	C	ALA	G	833	21.642	88.378	87.127	1.00	78.13	G
ATOM	14510	O	ALA	G	833	22.520	87.767	87.744	1.00	78.13	G
ATOM	14511	N	ALA	G	834	20.370	88.444	87.512	1.00	100.07	G
ATOM	14512	CA	ALA	G	834	19.857	87.781	88.701	1.00	100.07	G
ATOM	14513	CB	ALA	G	834	18.708	88.588	89.276	1.00	59.74	G
ATOM	14514	C	ALA	G	834	19.395	86.365	88.372	1.00	100.07	G
ATOM	14515	O	ALA	G	834	19.479	85.469	89.213	1.00	100.07	G
ATOM	14516	N	ALA	G	835	18.898	86.175	87.151	1.00	61.36	G
ATOM	14517	CA	ALA	G	835	18.444	84.865	86.685	1.00	61.36	G
ATOM	14518	CB	ALA	G	835	17.337	85.047	85.653	1.00	96.27	G
ATOM	14519	C	ALA	G	835	19.635	84.101	86.071	1.00	61.36	G
ATOM	14520	O	ALA	G	835	19.711	83.913	84.846	1.00	61.36	G
ATOM	14521	N	ALA	G	836	20.565	83.679	86.932	1.00	43.72	G
ATOM	14522	CA	ALA	G	836	21.767	82.962	86.507	1.00	43.72	G
ATOM	14523	CB	ALA	G	836	22.849	83.953	86.087	1.00	50.53	G
ATOM	14524	C	ALA	G	836	22.327	82.013	87.571	1.00	43.72	G
ATOM	14525	O	ALA	G	836	22.268	82.277	88.777	1.00	43.72	G
ATOM	14526	N	GLY	G	837	22.879	80.904	87.087	1.00	85.16	G
ATOM	14527	CA	GLY	G	837	23.466	79.883	87.938	1.00	85.16	G
ATOM	14528	C	GLY	G	837	24.560	79.178	87.153	1.00	85.16	G
ATOM	14529	O	GLY	G	837	24.566	79.228	85.918	1.00	85.16	G
ATOM	14530	N	ALA	G	838	25.478	78.517	87.852	1.00	66.54	G
ATOM	14531	CA	ALA	G	838	26.583	77.838	87.185	1.00	66.54	G
ATOM	14532	CB	ALA	G	838	27.829	78.693	87.277	1.00	100.07	G
ATOM	14533	C	ALA	G	838	26.873	76.444	87.727	1.00	66.54	G
ATOM	14534	O	ALA	G	838	26.427	76.094	88.814	1.00	66.54	G
ATOM	14535	N	ALA	G	839	27.644	75.669	86.959	1.00	89.68	G
ATOM	14536	CA	ALA	G	839	28.014	74.294	87.314	1.00	89.68	G
ATOM	14537	CB	ALA	G	839	28.158	73.456	86.031	1.00	45.77	G
ATOM	14538	C	ALA	G	839	29.294	74.186	88.163	1.00	89.68	G
ATOM	14539	O	ALA	G	839	30.054	75.154	88.293	1.00	89.68	G
ATOM	14540	N	ALA	G	840	29.522	73.000	88.737	1.00	100.07	G
ATOM	14541	CA	ALA	G	840	30.698	72.747	89.584	1.00	100.07	G
ATOM	14542	CB	ALA	G	840	30.292	71.879	90.831	1.00	5.07	G
ATOM	14543	C	ALA	G	840	31.842	72.075	88.806	1.00	100.07	G
ATOM	14544	O	ALA	G	840	31.603	71.170	87.998	1.00	100.07	G
ATOM	14545	N	ALA	G	841	33.077	72.523	89.053	1.00	100.07	G
ATOM	14546	CA	ALA	G	841	34.269	71.987	88.379	1.00	100.07	G
ATOM	14547	CB	ALA	G	841	35.514	72.775	88.805	1.00	100.07	G
ATOM	14548	C	ALA	G	841	34.481	70.489	88.635	1.00	100.07	G
ATOM	14549	O	ALA	G	841	34.902	70.078	89.722	1.00	100.07	G
ATOM	14550	N	ALA	G	842	34.200	69.683	87.613	1.00	100.07	G
ATOM	14551	CA	ALA	G	842	34.329	68.235	87.714	1.00	100.07	G
ATOM	14552	CB	ALA	G	842	33.067	67.663	88.354	1.00	47.21	G
ATOM	14553	C	ALA	G	842	34.579	67.558	86.358	1.00	100.07	G
ATOM	14554	O	ALA	G	842	34.214	66.389	86.176	1.00	100.07	G
ATOM	14555	N	ALA	G	843	35.200	68.296	85.429	1.00	83.68	G
ATOM	14556	CA	ALA	G	843	35.535	67.842	84.063	1.00	83.68	G
ATOM	14557	CB	ALA	G	843	34.731	66.594	83.679	1.00	100.07	G
ATOM	14558	C	ALA	G	843	35.219	68.971	83.088	1.00	83.68	G
ATOM	14559	O	ALA	G	843	36.070	69.804	82.775	1.00	83.68	G
ATOM	14560	N	ALA	G	844	33.983	68.976	82.605	1.00	100.07	G
ATOM	14561	CA	ALA	G	844	33.514	70.012	81.700	1.00	100.07	G
ATOM	14562	CB	ALA	G	844	32.724	69.386	80.534	1.00	34.11	G
ATOM	14563	C	ALA	G	844	32.613	70.903	82.568	1.00	100.07	G
ATOM	14564	O	ALA	G	844	31.675	70.409	83.211	1.00	100.07	G
ATOM	14565	N	ALA	G	845	32.912	72.204	82.602	1.00	100.07	G
ATOM	14566	CA	ALA	G	845	32.148	73.160	83.413	1.00	100.07	G
ATOM	14567	CB	ALA	G	845	33.097	73.915	84.335	1.00	85.18	G
ATOM	14568	C	ALA	G	845	31.288	74.162	82.626	1.00	100.07	G
ATOM	14569	O	ALA	G	845	31.410	74.279	81.403	1.00	100.07	G
ATOM	14570	N	ALA	G	846	30.421	74.881	83.344	1.00	76.95	G
ATOM	14571	CA	ALA	G	846	29.536	75.871	82.737	1.00	76.95	G
ATOM	14572	CB	ALA	G	846	30.352	77.027	82.201	1.00	22.44	G
ATOM	14573	C	ALA	G	846	28.745	75.244	81.602	1.00	76.95	G
ATOM	14574	O	ALA	G	846	28.201	75.953	80.754	1.00	76.95	G
ATOM	14575	N	ALA	G	847	28.689	73.914	81.592	1.00	82.66	G
ATOM	14576	CA	ALA	G	847	27.996	73.167	80.545	1.00	82.66	G
ATOM	14577	CB	ALA	G	847	28.336	71.669	80.659	1.00	5.07	G
ATOM	14578	C	ALA	G	847	26.483	73.376	80.541	1.00	82.66	G

ATOM	14579	O	ALA	G	847	25.814	73.082	79.550	1.00	82.66	G
ATOM	14580	N	ALA	G	848	25.950	73.897	81.641	1.00	72.60	G
ATOM	14581	CA	ALA	G	848	24.516	74.144	81.748	1.00	72.60	G
ATOM	14582	CB	ALA	G	848	24.069	73.945	83.187	1.00	94.69	G
ATOM	14583	C	ALA	G	848	24.142	75.551	81.272	1.00	72.60	G
ATOM	14584	O	ALA	G	848	22.965	75.870	81.111	1.00	72.60	G
ATOM	14585	N	ALA	G	849	25.150	76.385	81.044	1.00	34.26	G
ATOM	14586	CA	ALA	G	849	24.931	77.754	80.602	1.00	34.26	G
ATOM	14587	CB	ALA	G	849	25.918	78.677	81.287	1.00	39.16	G
ATOM	14588	C	ALA	G	849	25.065	77.877	79.092	1.00	34.26	G
ATOM	14589	O	ALA	G	849	24.208	78.451	78.427	1.00	34.26	G
ATOM	14590	N	ALA	G	850	26.153	77.355	78.544	1.00	60.24	G
ATOM	14591	CA	ALA	G	850	26.334	77.430	77.106	1.00	60.24	G
ATOM	14592	CB	ALA	G	850	27.637	76.722	76.697	1.00	20.96	G
ATOM	14593	C	ALA	G	850	25.103	76.739	76.510	1.00	60.24	G
ATOM	14594	O	ALA	G	850	24.624	77.099	75.430	1.00	60.24	G
ATOM	14595	N	ALA	G	851	24.586	75.757	77.250	1.00	53.83	G
ATOM	14596	CA	ALA	G	851	23.400	75.007	76.849	1.00	53.83	G
ATOM	14597	CB	ALA	G	851	23.416	73.625	77.481	1.00	62.17	G
ATOM	14598	C	ALA	G	851	22.191	75.799	77.338	1.00	53.83	G
ATOM	14599	O	ALA	G	851	21.104	75.748	76.754	1.00	53.83	G
ATOM	14600	N	ALA	G	852	22.378	76.524	78.435	1.00	66.34	G
ATOM	14601	CA	ALA	G	852	21.299	77.348	78.939	1.00	66.34	G
ATOM	14602	CB	ALA	G	852	21.785	78.206	80.088	1.00	52.64	G
ATOM	14603	C	ALA	G	852	20.964	78.213	77.730	1.00	66.34	G
ATOM	14604	O	ALA	G	852	19.809	78.303	77.310	1.00	66.34	G
ATOM	14605	N	ALA	G	853	22.012	78.815	77.162	1.00	33.20	G
ATOM	14606	CA	ALA	G	853	21.914	79.670	75.982	1.00	33.20	G
ATOM	14607	CB	ALA	G	853	23.315	80.047	75.502	1.00	5.07	G
ATOM	14608	C	ALA	G	853	21.168	78.938	74.873	1.00	33.20	G
ATOM	14609	O	ALA	G	853	20.368	79.535	74.153	1.00	33.20	G
ATOM	14610	N	ALA	G	854	21.436	77.637	74.755	1.00	64.50	G
ATOM	14611	CA	ALA	G	854	20.827	76.804	73.724	1.00	64.50	G
ATOM	14612	CB	ALA	G	854	21.117	75.344	73.977	1.00	18.45	G
ATOM	14613	C	ALA	G	854	19.339	77.016	73.610	1.00	64.50	G
ATOM	14614	O	ALA	G	854	18.900	77.858	72.835	1.00	64.50	G
ATOM	14615	N	ALA	G	855	18.560	76.255	74.373	1.00	66.03	G
ATOM	14616	CA	ALA	G	855	17.107	76.387	74.317	1.00	66.03	G
ATOM	14617	CB	ALA	G	855	16.448	75.572	75.456	1.00	8.00	G
ATOM	14618	C	ALA	G	855	16.730	77.874	74.392	1.00	66.03	G
ATOM	14619	O	ALA	G	855	16.534	78.434	75.464	1.00	66.03	G
ATOM	14620	N	GLY	G	856	16.668	78.496	73.219	1.00	76.46	G
ATOM	14621	CA	GLY	G	856	16.337	79.904	73.077	1.00	76.46	G
ATOM	14622	C	GLY	G	856	16.235	80.810	74.290	1.00	76.46	G
ATOM	14623	O	GLY	G	856	15.143	81.240	74.654	1.00	76.46	G
ATOM	14624	N	ALA	G	857	17.363	81.121	74.913	1.00	100.07	G
ATOM	14625	CA	ALA	G	857	17.369	82.008	76.073	1.00	100.07	G
ATOM	14626	CB	ALA	G	857	16.901	81.254	77.322	1.00	16.13	G
ATOM	14627	C	ALA	G	857	18.788	82.543	76.259	1.00	100.07	G
ATOM	14628	O	ALA	G	857	19.762	81.815	76.042	1.00	100.07	G
ATOM	14629	N	ALA	G	858	18.911	83.811	76.652	1.00	77.23	G
ATOM	14630	CA	ALA	G	858	20.231	84.419	76.830	1.00	77.23	G
ATOM	14631	CB	ALA	G	858	20.993	83.713	77.982	1.00	5.07	G
ATOM	14632	C	ALA	G	858	20.977	84.263	75.496	1.00	77.23	G
ATOM	14633	O	ALA	G	858	21.750	83.327	75.316	1.00	77.23	G
ATOM	14634	N	ALA	G	859	20.726	85.187	74.571	1.00	84.29	G
ATOM	14635	CA	ALA	G	859	21.319	85.160	73.235	1.00	84.29	G
ATOM	14636	CB	ALA	G	859	20.999	86.453	72.491	1.00	13.60	G
ATOM	14637	C	ALA	G	859	22.813	84.883	73.157	1.00	84.29	G
ATOM	14638	O	ALA	G	859	23.388	84.937	72.068	1.00	84.29	G
ATOM	14639	N	ALA	G	860	23.442	84.605	74.298	1.00	66.13	G
ATOM	14640	CA	ALA	G	860	24.870	84.275	74.354	1.00	66.13	G
ATOM	14641	CB	ALA	G	860	25.172	83.070	73.458	1.00	100.07	G
ATOM	14642	C	ALA	G	860	25.853	85.380	74.031	1.00	66.13	G
ATOM	14643	O	ALA	G	860	26.915	85.420	74.647	1.00	66.13	G
ATOM	14644	N	ALA	G	861	25.523	86.241	73.057	1.00	46.95	G
ATOM	14645	CA	ALA	G	861	26.394	87.354	72.645	1.00	46.95	G
ATOM	14646	CB	ALA	G	861	25.728	88.222	71.566	1.00	5.07	G
ATOM	14647	C	ALA	G	861	26.658	88.185	73.864	1.00	46.95	G
ATOM	14648	O	ALA	G	861	26.401	89.387	73.880	1.00	46.95	G
ATOM	14649	N	ALA	G	862	27.172	87.512	74.885	1.00	100.07	G
ATOM	14650	CA	ALA	G	862	27.483	88.115	76.155	1.00	100.07	G
ATOM	14651	CB	ALA	G	862	28.612	89.105	75.984	1.00	100.07	G
ATOM	14652	C	ALA	G	862	26.234	88.793	76.698	1.00	100.07	G
ATOM	14653	O	ALA	G	862	25.741	89.773	76.136	1.00	100.07	G
ATOM	14654	N	ALA	G	863	25.704	88.242	77.779	1.00	51.13	G
ATOM	14655	CA	ALA	G	863	24.522	88.806	78.391	1.00	51.13	G
ATOM	14656	CB	ALA	G	863	23.486	87.729	78.589	1.00	40.03	G
ATOM	14657	C	ALA	G	863	24.986	89.361	79.728	1.00	51.13	G
ATOM	14658	O	ALA	G	863	24.372	90.273	80.312	1.00	51.13	G
ATOM	14659	N	ALA	G	864	26.107	88.803	80.176	1.00	59.26	G
ATOM	14660	CA	ALA	G	864	26.738	89.155	81.440	1.00	59.26	G
ATOM	14661	CB	ALA	G	864	26.681	90.666	81.667	1.00	11.63	G
ATOM	14662	C	ALA	G	864	26.025	88.403	82.559	1.00	59.26	G

ATOM	14663	O	ALA	G	864	25.530	88.997	83.506	1.00	59.26	G
ATOM	14664	N	ALA	G	865	25.973	87.082	82.422	1.00	87.91	G
ATOM	14665	CA	ALA	G	865	25.331	86.219	83.406	1.00	87.91	G
ATOM	14666	CB	ALA	G	865	24.974	84.889	82.768	1.00	100.07	G
ATOM	14667	C	ALA	G	865	26.264	85.991	84.584	1.00	87.91	G
ATOM	14668	O	ALA	G	365	27.304	86.632	84.686	1.00	87.91	G
ATOM	14669	N	ALA	G	866	25.894	85.076	85.474	1.00	34.71	G
ATOM	14670	CA	ALA	G	866	26.731	84.788	86.632	1.00	34.71	G
ATOM	14671	CB	ALA	G	866	26.005	85.176	87.923	1.00	55.51	G
ATOM	14672	C	ALA	G	866	27.116	83.311	86.666	1.00	34.71	G
ATOM	14673	O	ALA	G	866	26.460	82.511	87.317	1.00	34.71	G
ATOM	14674	N	ALA	G	867	28.185	82.949	85.965	1.00	39.82	G
ATOM	14675	CA	ALA	G	867	28.634	81.561	85.932	1.00	39.82	G
ATOM	14676	CB	ALA	G	867	29.203	81.239	84.556	1.00	62.28	G
ATOM	14677	C	ALA	G	867	29.664	81.244	87.019	1.00	39.82	G
ATOM	14678	O	ALA	G	867	29.844	82.018	87.956	1.00	39.82	G
ATOM	14679	N	ALA	G	868	30.340	80.104	86.873	1.00	64.20	G
ATOM	14680	CA	ALA	G	868	31.349	79.655	87.835	1.00	64.20	G
ATOM	14681	CB	ALA	G	868	30.685	78.785	88.897	1.00	84.35	G
ATOM	14682	C	ALA	G	868	32.527	78.889	87.206	1.00	64.20	G
ATOM	14683	O	ALA	G	868	32.466	78.469	86.047	1.00	64.20	G
ATOM	14684	N	ALA	G	869	33.594	78.718	87.988	1.00	41.77	G
ATOM	14685	CA	ALA	G	869	34.805	78.000	87.569	1.00	41.77	G
ATOM	14686	CB	ALA	G	869	35.367	78.600	86.283	1.00	90.23	G
ATOM	14687	C	ALA	G	869	35.849	78.076	88.692	1.00	41.77	G
ATOM	14688	O	ALA	G	869	37.059	78.037	88.460	1.00	41.77	G
ATOM	14689	N	GLY	G	870	35.357	78.165	89.919	1.00	56.34	G
ATOM	14690	CA	GLY	G	870	36.231	78.268	91.065	1.00	56.34	G
ATOM	14691	C	GLY	G	870	35.805	79.529	91.785	1.00	56.34	G
ATOM	14692	O	GLY	G	870	36.219	79.789	92.918	1.00	56.34	G
ATOM	14693	N	ALA	G	871	34.957	80.309	91.114	1.00	42.45	G
ATOM	14694	CA	ALA	G	871	34.452	81.567	91.656	1.00	42.45	G
ATOM	14695	CB	ALA	G	871	35.491	82.675	91.471	1.00	45.12	G
ATOM	14696	C	ALA	G	871	33.166	81.952	90.947	1.00	42.45	G
ATOM	14697	O	ALA	G	871	32.849	81.396	89.901	1.00	42.45	G
ATOM	14698	N	ARG	G	872	32.423	82.894	91.523	1.00	72.53	G
ATOM	14699	CA	ARG	G	872	31.186	83.356	90.907	1.00	72.53	G
ATOM	14700	CB	ARG	G	872	30.175	83.831	91.951	1.00	99.90	G
ATOM	14701	CG	ARG	G	872	29.530	82.738	92.771	1.00	99.90	G
ATOM	14702	CD	ARG	G	872	28.335	83.297	93.520	1.00	99.90	G
ATOM	14703	NE	ARG	G	872	27.867	82.393	94.564	1.00	99.90	G
ATOM	14704	CZ	ARG	G	872	26.840	82.654	95.365	1.00	99.90	G
ATOM	14705	NH1	ARG	G	872	26.174	83.790	95.237	1.00	99.90	G
ATOM	14706	NH2	ARG	G	872	26.484	81.787	96.300	1.00	99.90	G
ATOM	14707	C	ARG	G	872	31.537	84.523	90.013	1.00	72.53	G
ATOM	14708	O	ARG	G	872	31.968	85.567	90.486	1.00	72.53	G
ATOM	14709	N	LEU	G	873	31.359	84.354	88.716	1.00	73.46	G
ATOM	14710	CA	LEU	G	873	31.680	85.439	87.819	1.00	73.46	G
ATOM	14711	CB	LEU	G	873	32.598	84.952	86.700	1.00	57.59	G
ATOM	14712	CG	LEU	G	873	34.004	84.542	87.138	1.00	57.59	G
ATOM	14713	CD1	LEU	G	873	34.852	84.271	85.905	1.00	57.59	G
ATOM	14714	CD2	LEU	G	873	34.630	85.650	87.992	1.00	57.59	G
ATOM	14715	C	LEU	G	873	30.432	86.051	87.228	1.00	73.46	G
ATOM	14716	O	LEU	G	873	29.363	85.435	87.225	1.00	73.46	G
ATOM	14717	N	ALA	G	874	30.575	87.282	86.751	1.00	62.33	G
ATOM	14718	CA	ALA	G	874	29.479	87.987	86.123	1.00	62.33	G
ATOM	14719	CB	ALA	G	874	29.407	89.417	86.637	1.00	62.14	G
ATOM	14720	C	ALA	G	874	29.782	87.953	84.628	1.00	62.33	G
ATOM	14721	O	ALA	G	874	29.227	88.717	83.849	1.00	62.33	G
ATOM	14722	N	THR	G	875	30.680	87.045	84.253	1.00	40.57	G
ATOM	14723	CA	THR	G	875	31.112	86.818	82.868	1.00	40.57	G
ATOM	14724	CB	THR	G	875	31.813	85.428	82.741	1.00	78.23	G
ATOM	14725	OG1	THR	G	875	32.990	85.409	83.556	1.00	78.23	G
ATOM	14726	CG2	THR	G	875	32.212	85.131	81.315	1.00	78.23	G
ATOM	14727	C	THR	G	875	29.948	86.861	81.886	1.00	40.57	G
ATOM	14728	O	THR	G	875	28.846	87.262	82.222	1.00	40.57	G
ATOM	14729	N	ASN	G	876	30.205	86.438	80.661	1.00	47.09	G
ATOM	14730	CA	ASN	G	876	29.192	86.416	79.624	1.00	47.09	G
ATOM	14731	CB	ASN	G	876	29.488	87.478	78.578	1.00	100.07	G
ATOM	14732	CG	ASN	G	876	30.792	87.228	77.851	1.00	100.07	G
ATOM	14733	OD1	ASN	G	876	31.873	87.593	78.325	1.00	100.07	G
ATOM	14734	ND2	ASN	G	876	30.697	86.590	76.694	1.00	100.07	G
ATOM	14735	C	ASN	G	876	29.251	85.051	78.976	1.00	47.09	G
ATOM	14736	O	ASN	G	876	30.336	84.540	78.681	1.00	47.09	G
ATOM	14737	N	PRO	G	877	28.083	84.452	78.712	1.00	53.32	G
ATOM	14738	CD	PRO	G	877	26.804	85.134	78.457	1.00	94.03	G
ATOM	14739	CA	PRO	G	877	28.090	83.125	78.092	1.00	53.32	G
ATOM	14740	CB	PRO	G	877	26.705	83.034	77.453	1.00	94.03	G
ATOM	14741	CG	PRO	G	877	26.351	84.459	77.194	1.00	94.03	G
ATOM	14742	C	PRO	G	877	29.217	83.031	77.086	1.00	53.32	G
ATOM	14743	O	PRO	G	877	30.053	82.135	77.154	1.00	53.32	G
ATOM	14744	N	GLY	G	878	29.258	84.000	76.183	1.00	84.36	G
ATOM	14745	CA	GLY	G	878	30.290	84.016	75.166	1.00	84.36	G
ATOM	14746	C	GLY	G	878	31.708	83.835	75.671	1.00	84.36	G

ATOM	14747	O	GLY	G	878	32.363	82.839	75.376	1.00	84.36	G
ATOM	14748	N	ALA	G	879	32.194	84.804	76.428	1.00	60.99	G
ATOM	14749	CA	ALA	G	879	33.540	84.726	76.942	1.00	60.99	G
ATOM	14750	CB	ALA	G	879	33.767	85.822	77.995	1.00	5.07	G
ATOM	14751	C	ALA	G	879	33.769	83.337	77.528	1.00	60.99	G
ATOM	14752	O	ALA	G	879	34.891	82.833	77.516	1.00	60.99	G
ATOM	14753	N	ILE	G	880	32.707	82.704	78.021	1.00	46.99	G
ATOM	14754	CA	ILE	G	880	32.842	81.369	78.595	1.00	46.99	G
ATOM	14755	CB	ILE	G	880	31.533	80.893	79.247	1.00	55.49	G
ATOM	14756	CG2	ILE	G	880	31.479	79.380	79.279	1.00	55.49	G
ATOM	14757	CG1	ILE	G	880	31.437	81.435	80.673	1.00	55.49	G
ATOM	14758	CD	ILE	G	880	32.559	80.961	81.591	1.00	55.49	G
ATOM	14759	C	ILE	G	880	33.247	80.381	77.518	1.00	46.99	G
ATOM	14760	O	ILE	G	880	34.223	79.652	77.664	1.00	46.99	G
ATOM	14761	N	LEU	G	881	32.483	80.356	76.435	1.00	31.65	G
ATOM	14762	CA	LEU	G	881	32.761	79.473	75.307	1.00	31.65	G
ATOM	14763	CB	LEU	G	881	31.857	79.866	74.146	1.00	22.42	G
ATOM	14764	CG	LEU	G	881	31.993	79.225	72.783	1.00	22.42	G
ATOM	14765	CD1	LEU	G	881	31.799	77.728	72.847	1.00	22.42	G
ATOM	14766	CD2	LEU	G	881	30.940	79.863	71.912	1.00	22.42	G
ATOM	14767	C	LEU	G	881	34.230	79.591	74.895	1.00	31.65	G
ATOM	14768	O	LEU	G	881	34.956	78.591	74.847	1.00	31.65	G
ATOM	14769	N	PHE	G	882	34.659	80.821	74.605	1.00	53.70	G
ATOM	14770	CA	PHE	G	882	36.039	81.093	74.220	1.00	53.70	G
ATOM	14771	CB	PHE	G	882	36.350	82.585	74.397	1.00	30.67	G
ATOM	14772	CG	PHE	G	882	37.700	83.006	73.861	1.00	30.67	G
ATOM	14773	CD1	PHE	G	882	37.843	84.216	73.194	1.00	30.67	G
ATOM	14774	CD2	PHE	G	882	38.829	82.209	74.025	1.00	30.67	G
ATOM	14775	CE1	PHE	G	882	39.095	84.622	72.694	1.00	30.67	G
ATOM	14776	CE2	PHE	G	882	40.080	82.612	73.526	1.00	30.67	G
ATOM	14777	CZ	PHE	G	882	40.209	83.816	72.862	1.00	30.67	G
ATOM	14778	C	PHE	G	882	36.969	80.249	75.086	1.00	53.70	G
ATOM	14779	O	PHE	G	882	37.839	79.553	74.568	1.00	53.70	G
ATOM	14780	N	ALA	G	883	36.781	80.308	76.401	1.00	51.90	G
ATOM	14781	CA	ALA	G	883	37.604	79.522	77.316	1.00	51.90	G
ATOM	14782	CB	ALA	G	883	36.893	79.343	78.654	1.00	44.21	G
ATOM	14783	C	ALA	G	883	37.882	78.158	76.694	1.00	51.90	G
ATOM	14784	O	ALA	G	883	38.882	77.991	75.987	1.00	51.90	G
ATOM	14785	N	ARG	G	884	36.999	77.192	76.960	1.00	28.10	G
ATOM	14786	CA	ARG	G	884	37.129	75.841	76.412	1.00	28.10	G
ATOM	14787	CB	ARG	G	884	35.761	75.270	76.046	1.00	80.63	G
ATOM	14788	CG	ARG	G	884	34.859	74.789	77.156	1.00	80.63	G
ATOM	14789	CD	ARG	G	884	33.455	74.718	76.573	1.00	80.63	G
ATOM	14790	NE	ARG	G	884	32.598	73.723	77.194	1.00	80.63	G
ATOM	14791	CZ	ARG	G	884	31.421	73.358	76.697	1.00	80.63	G
ATOM	14792	NH1	ARG	G	884	30.962	73.910	75.580	1.00	80.63	G
ATOM	14793	NH2	ARG	G	884	30.709	72.422	77.304	1.00	80.63	G
ATOM	14794	C	ARG	G	884	37.928	75.926	75.120	1.00	28.10	G
ATOM	14795	O	ARG	G	884	39.054	75.426	75.015	1.00	28.10	G
ATOM	14796	N	ILE	G	885	37.314	76.583	74.140	1.00	22.47	G
ATOM	14797	CA	ILE	G	885	37.914	76.737	72.835	1.00	22.47	G
ATOM	14798	CB	ILE	G	885	37.448	78.014	72.183	1.00	17.59	G
ATOM	14799	CG2	ILE	G	885	37.937	78.056	70.755	1.00	17.59	G
ATOM	14800	CG1	ILE	G	885	35.918	78.051	72.215	1.00	17.59	G
ATOM	14801	CD	ILE	G	885	35.296	79.288	71.628	1.00	17.59	G
ATOM	14802	C	ILE	G	885	39.407	76.744	73.015	1.00	22.47	G
ATOM	14803	O	ILE	G	885	40.105	75.903	72.453	1.00	22.47	G
ATOM	14804	N	VAL	G	886	39.882	77.674	73.834	1.00	15.70	G
ATOM	14805	CA	VAL	G	886	41.296	77.763	74.142	1.00	15.70	G
ATOM	14806	CB	VAL	G	886	41.651	79.115	74.750	1.00	52.29	G
ATOM	14807	CG1	VAL	G	886	42.900	78.989	75.600	1.00	52.29	G
ATOM	14808	CG2	VAL	G	886	41.883	80.114	73.651	1.00	52.29	G
ATOM	14809	C	VAL	G	886	41.627	76.677	75.149	1.00	15.70	G
ATOM	14810	O	VAL	G	886	42.557	75.902	74.959	1.00	15.70	G
ATOM	14811	N	GLY	G	887	40.862	76.627	76.227	1.00	50.56	G
ATOM	14812	CA	GLY	G	887	41.106	75.620	77.235	1.00	50.56	G
ATOM	14813	C	GLY	G	887	41.294	74.256	76.605	1.00	50.56	G
ATOM	14814	O	GLY	G	887	42.392	73.700	76.629	1.00	50.56	G
ATOM	14815	N	GLU	G	888	40.220	73.725	76.028	1.00	72.31	G
ATOM	14816	CA	GLU	G	888	40.242	72.414	75.393	1.00	72.31	G
ATOM	14817	CB	GLU	G	888	38.875	72.096	74.783	1.00	38.95	G
ATOM	14818	CG	GLU	G	888	37.821	71.769	75.829	1.00	38.95	G
ATOM	14819	CD	GLU	G	888	36.410	71.852	75.288	1.00	38.95	G
ATOM	14820	OE1	GLU	G	888	36.030	72.928	74.791	1.00	38.95	G
ATOM	14821	OE2	GLU	G	888	35.680	70.844	75.365	1.00	38.95	G
ATOM	14822	C	GLU	G	888	41.319	72.295	74.338	1.00	72.31	G
ATOM	14823	O	GLU	G	888	42.016	71.284	74.288	1.00	72.31	G
ATOM	14824	N	ALA	G	889	41.464	73.312	73.495	1.00	27.72	G
ATOM	14825	CA	ALA	G	889	42.493	73.242	72.468	1.00	27.72	G
ATOM	14826	CB	ALA	G	889	42.761	74.616	71.864	1.00	5.07	G
ATOM	14827	C	ALA	G	889	43.764	72.698	73.106	1.00	27.72	G
ATOM	14828	O	ALA	G	889	44.357	71.743	72.610	1.00	27.72	G
ATOM	14829	N	VAL	G	890	44.169	73.298	74.218	1.00	41.79	G
ATOM	14830	CA	VAL	G	890	45.371	72.871	74.922	1.00	41.79	G

ATOM	14831	CB	VAL	G	890	46.208	74.090	75.344	1.00	99.98	G
ATOM	14832	CG1	VAL	G	890	47.509	73.640	75.965	1.00	99.98	G
ATOM	14833	CG2	VAL	G	890	46.466	74.975	74.142	1.00	99.98	G
ATOM	14834	C	VAL	G	890	44.974	72.088	76.164	1.00	41.79	G
ATOM	14835	O	VAL	G	890	43.809	71.749	76.335	1.00	41.79	G
ATOM	14836	N	GLY	G	891	45.940	71.795	77.026	1.00	34.83	G
ATOM	14837	CA	GLY	G	891	45.633	71.076	78.246	1.00	34.83	G
ATOM	14838	C	GLY	G	891	44.673	71.865	79.128	1.00	34.83	G
ATOM	14839	O	GLY	G	891	45.069	72.408	80.172	1.00	34.83	G
ATOM	14840	N	ASP	G	892	43.411	71.910	78.696	1.00	63.47	G
ATOM	14841	CA	ASP	G	892	42.307	72.611	79.365	1.00	63.47	G
ATOM	14842	CB	ASP	G	892	41.343	71.594	80.013	1.00	100.07	G
ATOM	14843	CG	ASP	G	892	42.058	70.395	80.615	1.00	100.07	G
ATOM	14844	OD1	ASP	G	892	42.715	69.651	79.857	1.00	100.07	G
ATOM	14845	OD2	ASP	G	892	41.958	70.189	81.843	1.00	100.07	G
ATOM	14846	C	ASP	G	892	42.598	73.752	80.360	1.00	63.47	G
ATOM	14847	O	ASP	G	892	43.747	73.990	80.763	1.00	63.47	G
ATOM	14848	N	GLU	G	893	41.528	74.460	80.730	1.00	56.06	G
ATOM	14849	CA	GLU	G	893	41.584	75.595	81.645	1.00	56.06	G
ATOM	14850	CB	GLU	G	893	40.166	75.893	82.163	1.00	100.07	G
ATOM	14851	CG	GLU	G	893	39.183	76.338	81.054	1.00	100.07	G
ATOM	14852	CD	GLU	G	893	37.749	76.600	81.547	1.00	100.07	G
ATOM	14853	OE1	GLU	G	893	37.527	77.525	82.367	1.00	100.07	G
ATOM	14854	OE2	GLU	G	893	36.834	75.874	81.097	1.00	100.07	G
ATOM	14855	C	GLU	G	893	42.571	75.401	82.803	1.00	56.06	G
ATOM	14856	O	GLU	G	893	43.278	74.401	82.861	1.00	56.06	G
ATOM	14857	N	LYS	G	894	42.622	76.368	83.715	1.00	100.07	G
ATOM	14858	CA	LYS	G	894	43.530	76.331	84.866	1.00	100.07	G
ATOM	14859	CB	LYS	G	894	43.449	74.976	85.611	1.00	99.75	G
ATOM	14860	CG	LYS	G	894	44.554	73.940	85.291	1.00	99.75	G
ATOM	14861	CD	LYS	G	894	44.432	72.659	86.159	1.00	99.75	G
ATOM	14862	CE	LYS	G	894	45.514	71.610	85.830	1.00	99.75	G
ATOM	14863	NZ	LYS	G	894	45.452	70.399	86.710	1.00	99.75	G
ATOM	14864	C	LYS	G	894	44.957	76.591	84.392	1.00	100.07	G
ATOM	14865	O	LYS	G	894	45.714	77.327	85.027	1.00	100.07	G
ATOM	14866	N	VAL	G	895	45.311	75.980	83.268	1.00	49.89	G
ATOM	14867	CA	VAL	G	895	46.635	76.145	82.684	1.00	49.89	G
ATOM	14868	CB	VAL	G	895	47.090	74.855	81.939	1.00	99.66	G
ATOM	14869	CG1	VAL	G	895	48.600	74.852	81.779	1.00	99.66	G
ATOM	14870	CG2	VAL	G	895	46.629	73.609	82.693	1.00	9	

ATOM	14915	CG	GLN	G	901	43.910	90.058	77.731	1.00100.07	G
ATOM	14916	CD	GLN	G	901	43.896	91.438	77.088	1.00100.07	G
ATOM	14917	OE1	GLN	G	901	43.106	92.307	77.464	1.00100.07	G
ATOM	14918	NE2	GLN	G	901	44.779	91.645	76.122	1.00100.07	G
ATOM	14919	C	GLN	G	901	40.933	88.037	79.093	1.00 41.82	G
ATOM	14920	O	GLN	G	901	40.034	88.584	78.449	1.00 41.82	G
ATOM	14921	N	MET	G	902	40.726	87.225	80.132	1.00 36.52	G
ATOM	14922	CA	MET	G	902	39.404	86.840	80.608	1.00 36.52	G
ATOM	14923	CB	MET	G	902	39.459	86.357	82.058	1.00 73.44	G
ATOM	14924	CG	MET	G	902	39.471	84.823	82.184	1.00 73.44	G
ATOM	14925	SD	MET	G	902	38.474	83.969	80.908	1.00 73.44	G
ATOM	14926	CE	MET	G	902	36.839	84.599	81.236	1.00 73.44	G
ATOM	14927	C	MET	G	902	38.321	87.869	80.451	1.00 36.52	G
ATOM	14928	O	MET	G	902	38.546	89.069	80.611	1.00 36.52	G
ATOM	14929	N	ASP	G	903	37.127	87.369	80.152	1.00100.07	G
ATOM	14930	CA	ASP	G	903	35.982	88.222	79.906	1.00100.07	G
ATOM	14931	CB	ASP	G	903	35.318	88.688	81.202	1.00100.07	G
ATOM	14932	CG	ASP	G	903	34.097	87.852	81.555	1.00100.07	G
ATOM	14933	OD1	ASP	G	903	34.287	86.680	81.942	1.00100.07	G
ATOM	14934	OD2	ASP	G	903	32.958	88.363	81.431	1.00100.07	G
ATOM	14935	C	ASP	G	903	36.476	89.397	79.099	1.00100.07	G
ATOM	14936	O	ASP	G	903	36.743	89.223	77.907	1.00100.07	G
ATOM	14937	N	VAL	G	904	36.632	90.573	79.722	1.00 35.44	G
ATOM	14938	CA	VAL	G	904	37.081	91.740	78.965	1.00 35.44	G
ATOM	14939	CB	VAL	G	904	38.610	91.748	78.870	1.00 99.60	G
ATOM	14940	CG1	VAL	G	904	39.085	92.918	78.023	1.00 99.60	G
ATOM	14941	CG2	VAL	G	904	39.197	91.808	80.259	1.00 99.60	G
ATOM	14942	C	VAL	G	904	36.495	91.513	77.563	1.00 35.44	G
ATOM	14943	O	VAL	G	904	37.179	91.723	76.542	1.00 35.44	G
ATOM	14944	N	PRO	G	905	35.213	91.068	77.508	1.00100.07	G
ATOM	14945	CD	PRO	G	905	34.267	91.101	78.645	1.00 35.40	G
ATOM	14946	CA	PRO	G	905	34.472	90.763	76.283	1.00100.07	G
ATOM	14947	CB	PRO	G	905	33.028	90.680	76.781	1.00 35.40	G
ATOM	14948	CG	PRO	G	905	33.183	90.179	78.179	1.00 35.40	G
ATOM	14949	C	PRO	G	905	34.661	91.686	75.072	1.00100.07	G
ATOM	14950	O	PRO	G	905	33.722	92.331	74.600	1.00100.07	G
ATOM	14951	N	GLN	G	906	35.897	91.709	74.578	1.00 48.66	G
ATOM	14952	CA	GLN	G	906	36.326	92.483	73.424	1.00 48.66	G
ATOM	14953	CB	GLN	G	906	36.430	93.970	73.781	1.00100.07	G
ATOM	14954	CG	GLN	G	906	35.082	94.657	74.078	1.00100.07	G
ATOM	14955	CD	GLN	G	906	34.858	94.969	75.562	1.00100.07	G
ATOM	14956	OE1	GLN	G	906	34.928	94.084	76.418	1.00100.07	G
ATOM	14957	NE2	GLN	G	906	34.580	96.237	75.865	1.00100.07	G
ATOM	14958	C	GLN	G	906	37.705	91.884	73.169	1.00 48.66	G
ATOM	14959	O	GLN	G	906	38.565	91.921	74.053	1.00 48.66	G
ATOM	14960	N	GLU	G	907	37.898	91.309	71.981	1.00 57.50	G
ATOM	14961	CA	GLU	G	907	39.157	90.654	71.615	1.00 57.50	G
ATOM	14962	CB	GLU	G	907	38.996	89.158	71.819	1.00 15.90	G
ATOM	14963	CG	GLU	G	907	40.233	88.440	72.240	1.00 15.90	G
ATOM	14964	CD	GLU	G	907	40.084	87.869	73.630	1.00 15.90	G
ATOM	14965	OE1	GLU	G	907	38.939	87.498	73.974	1.00 15.90	G
ATOM	14966	OE2	GLU	G	907	41.093	87.784	74.381	1.00 15.90	G
ATOM	14967	C	GLU	G	907	39.488	90.917	70.145	1.00 57.50	G
ATOM	14968	O	GLU	G	907	38.589	90.863	69.304	1.00 57.50	G
ATOM	14969	N	LYS	G	908	40.757	91.186	69.824	1.00 31.57	G
ATOM	14970	CA	LYS	G	908	41.142	91.442	68.428	1.00 31.57	G
ATOM	14971	CB	LYS	G	908	40.448	92.710	67.929	1.00100.07	G
ATOM	14972	CG	LYS	G	908	41.120	93.364	66.743	1.00100.07	G
ATOM	14973	CD	LYS	G	908	42.219	94.317	67.196	1.00100.07	G
ATOM	14974	CE	LYS	G	908	42.775	95.148	66.039	1.00100.07	G
ATOM	14975	NZ	LYS	G	908	43.752	96.207	66.481	1.00100.07	G
ATOM	14976	C	LYS	G	908	42.651	91.537	68.153	1.00 31.57	G
ATOM	14977	O	LYS	G	908	43.131	91.330	67.026	1.00 31.57	G
ATOM	14978	N	ASN	G	909	43.409	91.867	69.179	1.00 45.38	G
ATOM	14979	CA	ASN	G	909	44.844	91.978	69.011	1.00 45.38	G
ATOM	14980	CB	ASN	G	909	45.292	93.348	69.506	1.00 50.76	G
ATOM	14981	CG	ASN	G	909	46.711	93.669	69.132	1.00 50.76	G
ATOM	14982	OD1	ASN	G	909	47.637	92.953	69.505	1.00 50.76	G
ATOM	14983	ND2	ASN	G	909	46.896	94.759	68.394	1.00 50.76	G
ATOM	14984	C	ASN	G	909	45.408	90.871	69.879	1.00 45.38	G
ATOM	14985	O	ASN	G	909	46.264	90.103	69.450	1.00 45.38	G
ATOM	14986	N	SER	G	910	44.883	90.809	71.101	1.00 35.05	G
ATOM	14987	CA	SER	G	910	45.249	89.815	72.090	1.00 35.05	G
ATOM	14988	CB	SER	G	910	44.181	89.739	73.167	1.00 16.04	G
ATOM	14989	OG	SER	G	910	42.943	89.345	72.603	1.00 16.04	G
ATOM	14990	C	SER	G	910	45.378	88.435	71.467	1.00 35.05	G
ATOM	14991	O	SER	G	910	46.270	87.671	71.840	1.00 35.05	G
ATOM	14992	N	LEU	G	911	44.471	88.094	70.548	1.00 32.43	G
ATOM	14993	CA	LEU	G	911	44.541	86.787	69.899	1.00 32.43	G
ATOM	14994	CB	LEU	G	911	43.677	86.741	68.636	1.00 41.34	G
ATOM	14995	CG	LEU	G	911	42.151	86.821	68.771	1.00 41.34	G
ATOM	14996	CD1	LEU	G	911	41.600	85.619	69.528	1.00 41.34	G
ATOM	14997	CD2	LEU	G	911	41.794	88.114	69.473	1.00 41.34	G
ATOM	14998	C	LEU	G	911	46.001	86.671	69.535	1.00 32.43	G

ATOM	14999	O	LEU	G	911	46.691	85.741	69.960	1.00	32.43	G
ATOM	15000	N	LYS	G	912	46.465	87.663	68.782	1.00	26.24	G
ATOM	15001	CA	LYS	G	912	47.854	87.734	68.371	1.00	26.24	G
ATOM	15002	CB	LYS	G	912	48.134	89.075	67.710	1.00	42.77	G
ATOM	15003	CG	LYS	G	912	49.594	89.346	67.439	1.00	42.77	G
ATOM	15004	CD	LYS	G	912	49.675	90.480	66.438	1.00	42.77	G
ATOM	15005	CE	LYS	G	912	51.095	90.931	66.124	1.00	42.77	G
ATOM	15006	NZ	LYS	G	912	51.108	91.949	65.018	1.00	42.77	G
ATOM	15007	C	LYS	G	912	48.753	87.574	69.589	1.00	26.24	G
ATOM	15008	O	LYS	G	912	49.753	86.851	69.542	1.00	26.24	G
ATOM	15009	N	ASP	G	913	48.399	88.245	70.683	1.00	37.60	G
ATOM	15010	CA	ASP	G	913	49.207	88.148	71.888	1.00	37.60	G
ATOM	15011	CB	ASP	G	913	48.731	89.125	72.966	1.00	100.07	G
ATOM	15012	CG	ASP	G	913	49.732	89.257	74.109	1.00	100.07	G
ATOM	15013	OD1	ASP	G	913	50.918	89.530	73.819	1.00	100.07	G
ATOM	15014	OD2	ASP	G	913	49.343	89.091	75.289	1.00	100.07	G
ATOM	15015	C	ASP	G	913	49.153	86.725	72.410	1.00	37.60	G
ATOM	15016	O	ASP	G	913	50.153	86.018	72.344	1.00	37.60	G
ATOM	15017	N	LEU	G	914	47.991	86.309	72.912	1.00	68.78	G
ATOM	15018	CA	LEU	G	914	47.812	84.958	73.440	1.00	68.78	G
ATOM	15019	CB	LEU	G	914	46.397	84.424	73.144	1.00	21.88	G
ATOM	15020	CG	LEU	G	914	45.847	83.327	74.081	1.00	21.88	G
ATOM	15021	CD1	LEU	G	914	44.512	82.819	73.558	1.00	21.88	G
ATOM	15022	CD2	LEU	G	914	46.828	82.182	74.220	1.00	21.88	G
ATOM	15023	C	LEU	G	914	48.820	84.053	72.758	1.00	68.78	G
ATOM	15024	O	LEU	G	914	49.779	83.595	73.383	1.00	68.78	G
ATOM	15025	N	VAL	G	915	48.602	83.838	71.460	1.00	25.52	G
ATOM	15026	CA	VAL	G	915	49.455	82.986	70.652	1.00	25.52	G
ATOM	15027	CB	VAL	G	915	49.341	83.348	69.215	1.00	5.07	G
ATOM	15028	CG1	VAL	G	915	50.200	82.442	68.399	1.00	5.07	G
ATOM	15029	CG2	VAL	G	915	47.910	83.243	68.808	1.00	5.07	G
ATOM	15030	C	VAL	G	915	50.916	83.009	71.033	1.00	25.52	G
ATOM	15031	O	VAL	G	915	51.476	81.961	71.340	1.00	25.52	G
ATOM	15032	N	TYR	G	916	51.542	84.184	70.996	1.00	41.66	G
ATOM	15033	CA	TYR	G	916	52.948	84.275	71.378	1.00	41.66	G
ATOM	15034	CB	TYR	G	916	53.486	85.711	71.262	1.00	18.15	G
ATOM	15035	CG	TYR	G	916	54.914	85.896	71.781	1.00	18.15	G
ATOM	15036	CD1	TYR	G	916	55.974	86.157	70.913	1.00	18.15	G
ATOM	15037	CE1	TYR	G	916	57.285	86.297	71.395	1.00	18.15	G
ATOM	15038	CD2	TYR	G	916	55.200	85.786	73.140	1.00	18.15	

ATOM	15083	CZ	ARG	G	921	52.284	83.419	80.048	1.00100.07	G
ATOM	15084	NH1	ARG	G	921	52.324	82.764	81.201	1.00100.07	G
ATOM	15085	NH2	ARG	G	921	51.970	84.705	80.027	1.00100.07	G
ATOM	15086	C	ARG	G	921	53.766	77.206	76.911	1.00 42.43	G
ATOM	15087	O	ARG	G	921	53.982	76.419	77.827	1.00 42.43	G
ATOM	15088	N	LEU	G	922	53.327	76.838	75.710	1.00 44.04	G
ATOM	15089	CA	LEU	G	922	53.030	75.451	75.361	1.00 44.04	G
ATOM	15090	CB	LEU	G	922	51.512	75.287	75.270	1.00 7.34	G
ATOM	15091	CG	LEU	G	922	50.720	76.050	76.343	1.00 7.34	G
ATOM	15092	CD1	LEU	G	922	49.227	76.146	76.025	1.00 7.34	G
ATOM	15093	CD2	LEU	G	922	50.944	75.348	77.636	1.00 7.34	G
ATOM	15094	C	LEU	G	922	53.686	75.135	74.010	1.00 44.04	G
ATOM	15095	O	LEU	G	922	53.556	75.902	73.063	1.00 44.04	G
ATOM	15096	N	GLY	G	923	54.387	74.010	73.922	1.00 72.53	G
ATOM	15097	CA	GLY	G	923	55.075	73.648	72.687	1.00 72.53	G
ATOM	15098	C	GLY	G	923	54.411	73.979	71.358	1.00 72.53	G
ATOM	15099	O	GLY	G	923	53.186	74.029	71.275	1.00 72.53	G
ATOM	15100	N	MET	G	924	55.218	74.200	70.317	1.00 43.18	G
ATOM	15101	CA	MET	G	924	54.697	74.513	68.986	1.00 43.18	G
ATOM	15102	CB	MET	G	924	55.687	74.157	67.886	1.00 30.36	G
ATOM	15103	CG	MET	G	924	56.921	74.996	67.850	1.00 30.36	G
ATOM	15104	SD	MET	G	924	57.814	74.652	66.340	1.00 30.36	G
ATOM	15105	CE	MET	G	924	58.292	72.974	66.643	1.00 30.36	G
ATOM	15106	C	MET	G	924	53.456	73.710	68.722	1.00 43.18	G
ATOM	15107	O	MET	G	924	52.382	74.271	68.488	1.00 43.18	G
ATOM	15108	N	GLU	G	925	53.618	72.387	68.755	1.00 32.52	G
ATOM	15109	CA	GLU	G	925	52.511	71.489	68.506	1.00 32.52	G
ATOM	15110	CB	GLU	G	925	52.806	70.096	69.053	1.00100.07	G
ATOM	15111	CG	GLU	G	925	53.470	70.084	70.392	1.00100.07	G
ATOM	15112	CD	GLU	G	925	54.402	68.905	70.528	1.00100.07	G
ATOM	15113	OE1	GLU	G	925	55.204	68.695	69.595	1.00100.07	G
ATOM	15114	OE2	GLU	G	925	54.346	68.197	71.556	1.00100.07	G
ATOM	15115	C	GLU	G	925	51.262	72.061	69.131	1.00 32.52	G
ATOM	15116	O	GLU	G	925	50.353	72.475	68.417	1.00 32.52	G
ATOM	15117	N	LYS	G	926	51.215	72.129	70.453	1.00 40.61	G
ATOM	15118	CA	LYS	G	926	50.027	72.672	71.076	1.00 40.61	G
ATOM	15119	CB	LYS	G	926	50.277	72.984	72.542	1.00 81.62	G
ATOM	15120	CG	LYS	G	926	50.375	71.727	73.363	1.00 81.62	G
ATOM	15121	CD	LYS	G	926	50.031	71.990	74.803	1.00 81.62	G
ATOM	15122	CE	LYS	G	926	49.978	70.696	75.601	1.00 81.62	G
ATOM	15123	NZ	LYS	G	926	49.600	70.913	77.033	1.00 81.62	G
ATOM	15124	C	LYS	G	926	49.543	73.898	70.320	1.00 40.61	G
ATOM	15125	O	LYS	G	926	48.554	73.813	69.606	1.00 40.61	G
ATOM	15126	N	THR	G	927	50.244	75.017	70.428	1.00 44.70	G
ATOM	15127	CA	THR	G	927	49.823	76.226	69.733	1.00 44.70	G
ATOM	15128	CB	THR	G	927	50.993	77.101	69.374	1.00 25.61	G
ATOM	15129	OG1	THR	G	927	51.706	77.460	70.559	1.00 25.61	G
ATOM	15130	CG2	THR	G	927	50.491	78.360	68.687	1.00 25.61	G
ATOM	15131	C	THR	G	927	49.076	75.949	68.435	1.00 44.70	G
ATOM	15132	O	THR	G	927	47.968	76.455	68.237	1.00 44.70	G
ATOM	15133	N	ALA	G	928	49.688	75.160	67.548	1.00 38.44	G
ATOM	15134	CA	ALA	G	928	49.064	74.817	66.265	1.00 38.44	G
ATOM	15135	CB	ALA	G	928	49.713	73.564	65.653	1.00 10.51	G
ATOM	15136	C	ALA	G	928	47.605	74.551	66.551	1.00 38.44	G
ATOM	15137	O	ALA	G	928	46.722	75.151	65.946	1.00 38.44	G
ATOM	15138	N	ARG	G	929	47.358	73.650	67.491	1.00 18.89	G
ATOM	15139	CA	ARG	G	929	45.999	73.341	67.846	1.00 18.89	G
ATOM	15140	CB	ARG	G	929	45.953	72.464	69.094	1.00 93.16	G
ATOM	15141	CG	ARG	G	929	46.502	71.090	68.814	1.00 93.16	G
ATOM	15142	CD	ARG	G	929	46.388	70.151	69.983	1.00 93.16	G
ATOM	15143	NE	ARG	G	929	46.770	68.804	69.571	1.00 93.16	G
ATOM	15144	CZ	ARG	G	929	46.714	67.734	70.355	1.00 93.16	G
ATOM	15145	NH1	ARG	G	929	46.293	67.855	71.608	1.00 93.16	G
ATOM	15146	NH2	ARG	G	929	47.059	66.541	69.880	1.00 93.16	G
ATOM	15147	C	ARG	G	929	45.277	74.659	68.051	1.00 18.89	G
ATOM	15148	O	ARG	G	929	44.634	75.137	67.134	1.00 18.89	G
ATOM	15149	N	LEU	G	930	45.393	75.259	69.230	1.00 27.41	G
ATOM	15150	CA	LEU	G	930	44.728	76.529	69.493	1.00 27.41	G
ATOM	15151	CB	LEU	G	930	45.461	77.304	70.597	1.00 41.94	G
ATOM	15152	CG	LEU	G	930	44.855	78.623	71.112	1.00 41.94	G
ATOM	15153	CD1	LEU	G	930	45.141	79.778	70.179	1.00 41.94	G
ATOM	15154	CD2	LEU	G	930	43.364	78.440	71.280	1.00 41.94	G
ATOM	15155	C	LEU	G	930	44.676	77.370	68.220	1.00 27.41	G
ATOM	15156	O	LEU	G	930	43.660	78.003	67.937	1.00 27.41	G
ATOM	15157	N	LEU	G	931	45.764	77.369	67.453	1.00 19.20	G
ATOM	15158	CA	LEU	G	931	45.830	78.134	66.204	1.00 19.20	G
ATOM	15159	CB	LEU	G	931	47.185	77.897	65.530	1.00 16.34	G
ATOM	15160	CG	LEU	G	931	48.025	79.122	65.193	1.00 16.34	G
ATOM	15161	CD1	LEU	G	931	47.242	80.021	64.251	1.00 16.34	G
ATOM	15162	CD2	LEU	G	931	48.402	79.843	66.472	1.00 16.34	G
ATOM	15163	C	LEU	G	931	44.707	77.660	65.281	1.00 19.20	G
ATOM	15164	O	LEU	G	931	44.128	78.420	64.503	1.00 19.20	G
ATOM	15165	N	ASP	G	932	44.433	76.371	65.383	1.00 53.43	G
ATOM	15166	CA	ASP	G	932	43.397	75.713	64.619	1.00 53.43	G

ATOM	15167	CB	ASP	G	932	43.775	74.250	64.423	1.00	40.48	G
ATOM	15168	CG	ASP	G	932	44.188	73.955	63.011	1.00	40.48	G
ATOM	15169	OD1	ASP	G	932	43.355	74.213	62.112	1.00	40.48	G
ATOM	15170	OD2	ASP	G	932	45.327	73.476	62.793	1.00	40.48	G
ATOM	15171	C	ASP	G	932	42.072	75.819	65.369	1.00	53.43	G
ATOM	15172	O	ASP	G	932	41.074	76.311	64.831	1.00	53.43	G
ATOM	15173	N	ALA	G	933	42.073	75.349	66.614	1.00	22.75	G
ATOM	15174	CA	ALA	G	933	40.893	75.395	67.454	1.00	22.75	G
ATOM	15175	CB	ALA	G	933	41.297	75.350	68.898	1.00	12.60	G
ATOM	15176	C	ALA	G	933	40.165	76.684	67.171	1.00	22.75	G
ATOM	15177	O	ALA	G	933	38.956	76.676	66.996	1.00	22.75	G
ATOM	15178	N	LEU	G	934	40.927	77.780	67.100	1.00	45.10	G
ATOM	15179	CA	LEU	G	934	40.403	79.126	66.848	1.00	45.10	G
ATOM	15180	CB	LEU	G	934	41.485	80.172	67.078	1.00	14.64	G
ATOM	15181	CG	LEU	G	934	41.968	80.342	68.516	1.00	14.64	G
ATOM	15182	CD1	LEU	G	934	43.095	81.362	68.574	1.00	14.64	G
ATOM	15183	CD2	LEU	G	934	40.816	80.784	69.368	1.00	14.64	G
ATOM	15184	C	LEU	G	934	39.798	79.375	65.477	1.00	45.10	G
ATOM	15185	O	LEU	G	934	38.682	79.871	65.375	1.00	45.10	G
ATOM	15186	N	LYS	G	935	40.522	79.059	64.416	1.00	40.13	G
ATOM	15187	CA	LYS	G	935	39.971	79.296	63.092	1.00	40.13	G
ATOM	15188	CB	LYS	G	935	40.876	78.716	62.011	1.00	64.39	G
ATOM	15189	CG	LYS	G	935	40.839	77.215	61.933	1.00	64.39	G
ATOM	15190	CD	LYS	G	935	40.838	76.780	60.499	1.00	64.39	G
ATOM	15191	CE	LYS	G	935	40.732	75.284	60.400	1.00	64.39	G
ATOM	15192	NZ	LYS	G	935	40.455	74.896	58.997	1.00	64.39	G
ATOM	15193	C	LYS	G	935	38.576	78.692	62.951	1.00	40.13	G
ATOM	15194	O	LYS	G	935	37.656	79.356	62.482	1.00	40.13	G
ATOM	15195	N	TYR	G	936	38.409	77.439	63.360	1.00	53.66	G
ATOM	15196	CA	TYR	G	936	37.106	76.798	63.246	1.00	53.66	G
ATOM	15197	CB	TYR	G	936	37.117	75.442	63.948	1.00	52.88	G
ATOM	15198	CG	TYR	G	936	35.804	74.667	63.921	1.00	52.88	G
ATOM	15199	CD1	TYR	G	936	35.735	73.373	64.450	1.00	52.88	G
ATOM	15200	CE1	TYR	G	936	34.535	72.653	64.468	1.00	52.88	G
ATOM	15201	CD2	TYR	G	936	34.634	75.220	63.408	1.00	52.88	G
ATOM	15202	CE2	TYR	G	936	33.432	74.509	63.426	1.00	52.88	G
ATOM	15203	CZ	TYR	G	936	33.391	73.231	63.955	1.00	52.88	G
ATOM	15204	OH	TYR	G	936	32.210	72.528	63.975	1.00	52.88	G
ATOM	15205	C	TYR	G	936	36.028	77.684	63.846	1.00	53.66	G
ATOM	15206	O	TYR	G	936	35.275	78.339	63.114	1.00	53.66	G
ATOM	15207	N	TYR	G	937	35.952	77.704	65.175	1.00	79.97	G
ATOM	15208	CA	TYR	G	937	34.948	78.511	65.855	1.00	79.97	G
ATOM	15209	CB	TYR	G	937	35.297	78.656	67.337	1.00	58.88	G
ATOM	15210	CG	TYR	G	937	35.137	77.356	68.078	1.00	58.88	G
ATOM	15211	CD1	TYR	G	937	35.983	76.282	67.812	1.00	58.88	G
ATOM	15212	CE1	TYR	G	937	35.814	75.042	68.444	1.00	58.88	G
ATOM	15213	CD2	TYR	G	937	34.110	77.171	68.999	1.00	58.88	G
ATOM	15214	CE2	TYR	G	937	33.927	75.936	69.640	1.00	58.88	G
ATOM	15215	CZ	TYR	G	937	34.787	74.875	69.354	1.00	58.88	G
ATOM	15216	OH	TYR	G	937	34.642	73.650	69.968	1.00	58.88	G
ATOM	15217	C	TYR	G	937	34.828	79.871	65.187	1.00	79.97	G
ATOM	15218	O	TYR	G	937	33.725	80.382	64.967	1.00	79.97	G
ATOM	15219	N	GLY	G	938	35.973	80.443	64.839	1.00	60.21	G
ATOM	15220	CA	GLY	G	938	35.968	81.729	64.177	1.00	60.21	G
ATOM	15221	C	GLY	G	938	35.047	81.722	62.974	1.00	60.21	G
ATOM	15222	O	GLY	G	938	34.048	82.439	62.948	1.00	60.21	G
ATOM	15223	N	PHE	G	939	35.355	80.896	61.981	1.00	22.71	G
ATOM	15224	CA	PHE	G	939	34.525	80.871	60.785	1.00	22.71	G
ATOM	15225	CB	PHE	G	939	35.062	79.868	59.746	1.00	18.06	G
ATOM	15226	CG	PHE	G	939	36.390	80.246	59.161	1.00	18.06	G
ATOM	15227	CD1	PHE	G	939	37.567	79.921	59.810	1.00	18.06	G
ATOM	15228	CD2	PHE	G	939	36.458	80.922	57.963	1.00	18.06	G
ATOM	15229	CE1	PHE	G	939	38.784	80.272	59.281	1.00	18.06	G
ATOM	15230	CE2	PHE	G	939	37.664	81.276	57.430	1.00	18.06	G
ATOM	15231	CZ	PHE	G	939	38.832	80.947	58.086	1.00	18.06	G
ATOM	15232	C	PHE	G	939	33.061	80.556	61.075	1.00	22.71	G
ATOM	15233	O	PHE	G	939	32.180	81.354	60.726	1.00	22.71	G
ATOM	15234	N	THR	G	940	32.811	79.403	61.705	1.00	35.31	G
ATOM	15235	CA	THR	G	940	31.452	78.956	62.031	1.00	35.31	G
ATOM	15236	CB	THR	G	940	31.456	77.814	63.039	1.00	78.82	G
ATOM	15237	OG1	THR	G	940	32.338	76.790	62.585	1.00	78.82	G
ATOM	15238	CG2	THR	G	940	30.050	77.241	63.201	1.00	78.82	G
ATOM	15239	C	THR	G	940	30.625	80.062	62.652	1.00	35.31	G
ATOM	15240	O	THR	G	940	29.586	80.471	62.107	1.00	35.31	G
ATOM	15241	N	LEU	G	941	31.090	80.505	63.820	1.00	73.58	G
ATOM	15242	CA	LEU	G	941	30.459	81.576	64.574	1.00	73.58	G
ATOM	15243	CB	LEU	G	941	31.392	82.061	65.672	1.00	25.16	G
ATOM	15244	CG	LEU	G	941	31.250	81.452	67.062	1.00	25.16	G
ATOM	15245	CD1	LEU	G	941	29.776	81.350	67.372	1.00	25.16	G
ATOM	15246	CD2	LEU	G	941	31.904	80.101	67.142	1.00	25.16	G
ATOM	15247	C	LEU	G	941	30.190	82.725	63.631	1.00	73.58	G
ATOM	15248	O	LEU	G	941	29.045	83.129	63.422	1.00	73.58	G
ATOM	15249	N	SER	G	942	31.274	83.254	63.082	1.00	23.90	G
ATOM	15250	CA	SER	G	942	31.213	84.341	62.137	1.00	23.90	G

ATOM	15251	CB	SER	G	942	32.423	84.280	61.226	1.00	9.16	G
ATOM	15252	OG	SER	G	942	32.145	85.004	60.053	1.00	9.16	G
ATOM	15253	C	SER	G	942	29.957	84.256	61.286	1.00	23.90	G
ATOM	15254	O	SER	G	942	29.270	85.257	61.076	1.00	23.90	G
ATOM	15255	N	THR	G	943	29.669	83.049	60.799	1.00	44.02	G
ATOM	15256	CA	THR	G	943	28.506	82.791	59.942	1.00	44.02	G
ATOM	15257	CB	THR	G	943	28.489	81.341	59.420	1.00	26.04	G
ATOM	15258	OG1	THR	G	943	29.828	80.886	59.195	1.00	26.04	G
ATOM	15259	CG2	THR	G	943	27.722	81.270	58.120	1.00	26.04	G
ATOM	15260	C	THR	G	943	27.185	83.001	60.665	1.00	44.02	G
ATOM	15261	O	THR	G	943	26.441	83.932	60.358	1.00	44.02	G
ATOM	15262	N	THR	G	944	26.913	82.103	61.612	1.00	36.28	G
ATOM	15263	CA	THR	G	944	25.700	82.094	62.430	1.00	36.28	G
ATOM	15264	CB	THR	G	944	25.942	81.356	63.735	1.00	19.29	G
ATOM	15265	OG1	THR	G	944	27.162	80.621	63.625	1.00	19.29	G
ATOM	15266	CG2	THR	G	944	24.817	80.386	64.017	1.00	19.29	G
ATOM	15267	C	THR	G	944	25.205	83.475	62.788	1.00	36.28	G
ATOM	15268	O	THR	G	944	24.009	83.763	62.693	1.00	36.28	G
ATOM	15269	N	SER	G	945	26.124	84.328	63.216	1.00	25.97	G
ATOM	15270	CA	SER	G	945	25.752	85.682	63.592	1.00	25.97	G
ATOM	15271	CB	SER	G	945	26.934	86.379	64.278	1.00	73.26	G
ATOM	15272	OG	SER	G	945	27.170	85.825	65.565	1.00	73.26	G
ATOM	15273	C	SER	G	945	25.240	86.510	62.409	1.00	25.97	G
ATOM	15274	O	SER	G	945	24.060	86.843	62.345	1.00	25.97	G
ATOM	15275	N	GLY	G	946	26.112	86.828	61.462	1.00	46.19	G
ATOM	15276	CA	GLY	G	946	25.679	87.625	60.330	1.00	46.19	G
ATOM	15277	C	GLY	G	946	26.517	88.879	60.201	1.00	46.19	G
ATOM	15278	O	GLY	G	946	27.158	89.339	61.145	1.00	46.19	G
ATOM	15279	N	ILE	G	947	26.519	89.431	59.006	1.00	21.23	G
ATOM	15280	CA	ILE	G	947	27.273	90.632	58.712	1.00	21.23	G
ATOM	15281	CB	ILE	G	947	28.714	90.268	58.350	1.00	100.07	G
ATOM	15282	CG2	ILE	G	947	29.392	91.440	57.678	1.00	100.07	G
ATOM	15283	CG1	ILE	G	947	29.451	89.773	59.604	1.00	100.07	G
ATOM	15284	CD	ILE	G	947	29.439	90.735	60.789	1.00	100.07	G
ATOM	15285	C	ILE	G	947	26.529	91.158	57.501	1.00	21.23	G
ATOM	15286	O	ILE	G	947	25.935	90.364	56.797	1.00	21.23	G
ATOM	15287	N	ILE	G	948	26.520	92.456	57.228	1.00	20.15	G
ATOM	15288	CA	ILE	G	948	25.756	92.875	56.059	1.00	20.15	G
ATOM	15289	CB	ILE	G	948	24.259	92.923	56.375	1.00	82.40	G
ATOM	15290	CG2	ILE	G	948	23.604	91.690	55.848	1.00	82.40	G
ATOM	15291	CG1	ILE	G	948	24.045	93.126	57.881	1.00	82.40	G
ATOM	15292	CD	ILE	G	948	22.604	93.418	58.294	1.00	82.40	G
ATOM	15293	C	ILE	G	948	26.082	94.186	55.377	1.00	20.15	G
ATOM	15294	O	ILE	G	948	25.354	94.588	54.465	1.00	20.15	G
ATOM	15295	N	THR	G	949	27.154	94.851	55.790	1.00	17.57	G
ATOM	15296	CA	THR	G	949	27.483	96.137	55.199	1.00	17.57	G
ATOM	15297	CB	THR	G	949	28.791	96.048	54.445	1.00	22.46	G
ATOM	15298	OG1	THR	G	949	29.784	95.482	55.309	1.00	22.46	G
ATOM	15299	CG2	THR	G	949	29.243	97.433	54.029	1.00	22.46	G
ATOM	15300	C	THR	G	949	26.335	96.588	54.283	1.00	17.57	G
ATOM	15301	O	THR	G	949	26.424	96.542	53.048	1.00	17.57	G
ATOM	15302	N	ILE	G	950	25.238	96.984	54.930	1.00	37.62	G
ATOM	15303	CA	ILE	G	950	24.018	97.425	54.257	1.00	37.62	G
ATOM	15304	CB	ILE	G	950	22.784	97.348	55.217	1.00	100.07	G
ATOM	15305	CG2	ILE	G	950	21.613	98.122	54.644	1.00	100.07	G
ATOM	15306	CG1	ILE	G	950	22.406	95.891	55.496	1.00	100.07	G
ATOM	15307	CD	ILE	G	950	21.014	95.699	56.090	1.00	100.07	G
ATOM	15308	C	ILE	G	950	24.083	98.854	53.726	1.00	37.62	G
ATOM	15309	O	ILE	G	950	24.836	99.681	54.240	1.00	37.62	G
ATOM	15310	N	GLY	G	951	23.271	99.142	52.709	1.00	29.39	G
ATOM	15311	CA	GLY	G	951	23.231	100.478	52.154	1.00	29.39	G
ATOM	15312	C	GLY	G	951	23.311	101.364	53.356	1.00	29.39	G
ATOM	15313	O	GLY	G	951	23.989	102.388	53.329	1.00	29.39	G
ATOM	15314	N	ILE	G	952	22.644	100.914	54.423	1.00	55.50	G
ATOM	15315	CA	ILE	G	952	22.588	101.618	55.701	1.00	55.50	G
ATOM	15316	CB	ILE	G	952	21.127	101.746	56.244	1.00	70.06	G
ATOM	15317	CG2	ILE	G	952	21.077	102.844	57.304	1.00	70.06	G
ATOM	15318	CG1	ILE	G	952	20.147	102.061	55.101	1.00	70.06	G
ATOM	15319	CD	ILE	G	952	18.874	102.811	55.523	1.00	70.06	G
ATOM	15320	C	ILE	G	952	23.429	100.957	56.793	1.00	55.50	G
ATOM	15321	O	ILE	G	952	24.374	101.575	57.269	1.00	55.50	G
ATOM	15322	N	ASP	G	953	23.068	99.726	57.191	1.00	66.00	G
ATOM	15323	CA	ASP	G	953	23.776	98.959	58.240	1.00	66.00	G
ATOM	15324	CB	ASP	G	953	23.793	97.467	57.915	1.00	60.15	G
ATOM	15325	CG	ASP	G	953	22.908	96.648	58.834	1.00	60.15	G
ATOM	15326	OD1	ASP	G	953	23.361	96.269	59.940	1.00	60.15	G
ATOM	15327	OD2	ASP	G	953	21.750	96.384	58.445	1.00	60.15	G
ATOM	15328	C	ASP	G	953	25.209	99.404	58.378	1.00	66.00	G
ATOM	15329	O	ASP	G	953	26.112	98.706	57.932	1.00	66.00	G
ATOM	15330	N	ALA	G	954	25.398	100.549	59.026	1.00	33.02	G
ATOM	15331	CA	ALA	G	954	26.700	101.176	59.215	1.00	33.02	G
ATOM	15332	CB	ALA	G	954	27.814	100.142	59.248	1.00	100.07	G
ATOM	15333	C	ALA	G	954	26.866	102.120	58.026	1.00	33.02	G
ATOM	15334	O	ALA	G	954	26.660	101.750	56.874	1.00	33.02	G

ATOM	15335	N	ALA	G	955	27.229	103.351	58.343	1.00	66.89	G
ATOM	15336	CA	ALA	G	955	27.407	104.457	57.404	1.00	66.89	G
ATOM	15337	CB	ALA	G	955	26.561	104.266	56.149	1.00	48.39	G
ATOM	15338	C	ALA	G	955	26.764	105.468	58.318	1.00	66.89	G
ATOM	15339	O	ALA	G	955	27.113	106.647	58.349	1.00	66.89	G
ATOM	15340	N	VAL	G	956	25.828	104.919	59.088	1.00	44.92	G
ATOM	15341	CA	VAL	G	956	25.065	105.620	60.087	1.00	44.92	G
ATOM	15342	CB	VAL	G	956	25.136	104.886	61.409	1.00	88.16	G
ATOM	15343	CG1	VAL	G	956	24.219	105.546	62.398	1.00	88.16	G
ATOM	15344	CG2	VAL	G	956	24.790	103.431	61.208	1.00	88.16	G
ATOM	15345	C	VAL	G	956	25.650	106.989	60.283	1.00	44.92	G
ATOM	15346	O	VAL	G	956	26.437	107.217	61.209	1.00	44.92	G
ATOM	15347	N	ILE	G	957	25.274	107.899	59.398	1.00	100.07	G
ATOM	15348	CA	ILE	G	957	25.772	109.255	59.473	1.00	100.07	G
ATOM	15349	CB	ILE	G	957	25.656	109.961	58.116	1.00	72.26	G
ATOM	15350	CG2	ILE	G	957	25.611	111.463	58.304	1.00	72.26	G
ATOM	15351	CG1	ILE	G	957	26.847	109.573	57.246	1.00	72.26	G
ATOM	15352	CD	ILE	G	957	28.179	109.852	57.901	1.00	72.26	G
ATOM	15353	C	ILE	G	957	25.058	110.073	60.534	1.00	100.07	G
ATOM	15354	O	ILE	G	957	23.835	109.997	60.692	1.00	100.07	G
ATOM	15355	N	PRO	G	958	25.827	110.865	61.287	1.00	30.76	G
ATOM	15356	CD	PRO	G	958	27.301	110.863	61.294	1.00	41.33	G
ATOM	15357	CA	PRO	G	958	25.291	111.719	62.352	1.00	30.76	G
ATOM	15358	CB	PRO	G	958	26.502	111.949	63.237	1.00	41.33	G
ATOM	15359	CG	PRO	G	958	27.620	112.022	62.204	1.00	41.33	G
ATOM	15360	C	PRO	G	958	24.739	113.028	61.802	1.00	30.76	G
ATOM	15361	O	PRO	G	958	25.352	113.644	60.925	1.00	30.76	G
ATOM	15362	N	GLU	G	959	23.583	113.452	62.310	1.00	66.33	G
ATOM	15363	CA	GLU	G	959	22.996	114.710	61.865	1.00	66.33	G
ATOM	15364	CB	GLU	G	959	21.893	115.172	62.824	1.00	83.69	G
ATOM	15365	CG	GLU	G	959	20.767	114.172	63.094	1.00	83.69	G
ATOM	15366	CD	GLU	G	959	19.574	114.326	62.159	1.00	83.69	G
ATOM	15367	OE1	GLU	G	959	19.132	115.470	61.907	1.00	83.69	G
ATOM	15368	OE2	GLU	G	959	19.062	113.290	61.691	1.00	83.69	G
ATOM	15369	C	GLU	G	959	24.165	115.682	61.950	1.00	66.33	G
ATOM	15370	O	GLU	G	959	24.290	116.612	61.147	1.00	66.33	G
ATOM	15371	N	GLU	G	960	25.030	115.418	62.932	1.00	44.62	G
ATOM	15372	CA	GLU	G	960	26.213	116.225	63.206	1.00	44.62	G
ATOM	15373	CB	GLU	G	960	27.166	115.471	64.120	1.00	41.47	G
ATOM	15374	CG	GLU	G	960	26.551	115.152	65.456	1.00	41.47	G
ATOM	15375	CD	GLU	G	960	27.587	114.720	66.454	1.00	41.47	G
ATOM	15376	OE1	GLU	G	960	28.651	115.366	66.468	1.00	41.47	G
ATOM	15377	OE2	GLU	G	960	27.348	113.756	67.224	1.00	41.47	G
ATOM	15378	C	GLU	G	960	26.964	116.706	61.989	1.00	44.62	G
ATOM	15379	O	GLU	G	960	27.533	117.794	62.014	1.00	44.62	G
ATOM	15380	N	LYS	G	961	26.981	115.913	60.922	1.00	61.28	G
ATOM	15381	CA	LYS	G	961	27.679	116.365	59.730	1.00	61.28	G
ATOM	15382	CB	LYS	G	961	27.333	115.517	58.505	1.00	100.07	G
ATOM	15383	CG	LYS	G	961	28.207	115.854	57.298	1.00	100.07	G
ATOM	15384	CD	LYS	G	961	27.824	115.079	56.045	1.00	100.07	G
ATOM	15385	CE	LYS	G	961	28.768	115.401	54.889	1.00	100.07	G
ATOM	15386	NZ	LYS	G	961	28.351	114.749	53.617	1.00	100.07	G
ATOM	15387	C	LYS	G	961	27.187	117.787	59.524	1.00	61.28	G
ATOM	15388	O	LYS	G	961	27.934	118.661	59.104	1.00	61.28	G
ATOM	15389	N	GLN	G	962	25.923	118.015	59.857	1.00	40.61	G
ATOM	15390	CA	GLN	G	962	25.352	119.334	59.726	1.00	40.61	G
ATOM	15391	CB	GLN	G	962	23.860	119.289	60.019	1.00	82.10	G
ATOM	15392	CG	GLN	G	962	23.047	118.931	58.791	1.00	82.10	G
ATOM	15393	CD	GLN	G	962	21.593	118.692	59.117	1.00	82.10	G
ATOM	15394	OE1	GLN	G	962	21.023	119.360	59.981	1.00	82.10	G
ATOM	15395	NE2	GLN	G	962	20.976	117.743	58.422	1.00	82.10	G
ATOM	15396	C	GLN	G	962	26.066	120.324	60.636	1.00	40.61	G
ATOM	15397	O	GLN	G	962	26.977	121.001	60.181	1.00	40.61	G
ATOM	15398	N	ARG	G	963	25.672	120.414	61.907	1.00	99.81	G
ATOM	15399	CA	ARG	G	963	26.314	121.351	62.845	1.00	99.81	G
ATOM	15400	CB	ARG	G	963	26.111	120.869	64.311	1.00	54.04	G
ATOM	15401	CG	ARG	G	963	27.109	121.385	65.386	1.00	54.04	G
ATOM	15402	CD	ARG	G	963	27.015	120.551	66.704	1.00	54.04	G
ATOM	15403	NE	ARG	G	963	28.264	120.514	67.491	1.00	54.04	G
ATOM	15404	CZ	ARG	G	963	28.413	119.893	68.669	1.00	54.04	G
ATOM	15405	NH1	ARG	G	963	27.388	119.254	69.209	1.00	54.04	G
ATOM	15406	NH2	ARG	G	963	29.586	119.902	69.307	1.00	54.04	G
ATOM	15407	C	ARG	G	963	27.806	121.557	62.514	1.00	99.81	G
ATOM	15408	O	ARG	G	963	28.276	122.695	62.493	1.00	99.81	G
ATOM	15409	N	TYR	G	964	28.536	120.474	62.223	1.00	59.83	G
ATOM	15410	CA	TYR	G	964	29.965	120.576	61.895	1.00	59.83	G
ATOM	15411	CB	TYR	G	964	30.638	119.204	61.920	1.00	96.05	G
ATOM	15412	CG	TYR	G	964	30.789	118.613	63.306	1.00	96.05	G
ATOM	15413	CD1	TYR	G	964	29.684	118.133	64.006	1.00	96.05	G
ATOM	15414	CE1	TYR	G	964	29.822	117.572	65.261	1.00	96.05	G
ATOM	15415	CD2	TYR	G	964	32.042	118.517	63.908	1.00	96.05	G
ATOM	15416	CE2	TYR	G	964	32.190	117.957	65.164	1.00	96.05	G
ATOM	15417	CZ	TYR	G	964	31.077	117.483	65.836	1.00	96.05	G
ATOM	15418	OH	TYR	G	964	31.223	116.901	67.077	1.00	96.05	G

ATOM	15419	C	TYR	G	964	30.135	121.210	60.527	1.00	59.83	G
ATOM	15420	O	TYR	G	964	31.088	121.950	60.277	1.00	59.83	G
ATOM	15421	N	LEU	G	965	29.219	120.877	59.629	1.00	67.15	G
ATOM	15422	CA	LEU	G	965	29.207	121.483	58.314	1.00	67.15	G
ATOM	15423	CB	LEU	G	965	28.290	120.715	57.366	1.00	37.73	G
ATOM	15424	CG	LEU	G	965	28.954	119.741	56.395	1.00	37.73	G
ATOM	15425	CD1	LEU	G	965	29.579	120.523	55.269	1.00	37.73	G
ATOM	15426	CD2	LEU	G	965	30.002	118.901	57.109	1.00	37.73	G
ATOM	15427	C	LEU	G	965	28.565	122.800	58.691	1.00	67.15	G
ATOM	15428	O	LEU	G	965	28.130	122.960	59.833	1.00	67.15	G
ATOM	15429	N	GLU	G	966	28.482	123.738	57.762	1.00	60.94	G
ATOM	15430	CA	GLU	G	966	27.886	125.020	58.090	1.00	60.94	G
ATOM	15431	CB	GLU	G	966	26.510	124.837	58.729	1.00	84.32	G
ATOM	15432	CG	GLU	G	966	25.885	126.154	59.055	1.00	84.32	G
ATOM	15433	CD	GLU	G	966	26.086	127.143	57.928	1.00	84.32	G
ATOM	15434	OE1	GLU	G	966	25.421	126.998	56.884	1.00	84.32	G
ATOM	15435	OE2	GLU	G	966	26.925	128.052	58.076	1.00	84.32	G
ATOM	15436	C	GLU	G	966	28.812	125.758	59.045	1.00	60.94	G
ATOM	15437	O	GLU	G	966	29.256	126.850	58.734	1.00	60.94	G
ATOM	15438	N	GLU	G	967	29.091	125.188	60.217	1.00	53.77	G
ATOM	15439	CA	GLU	G	967	30.026	125.844	61.123	1.00	53.77	G
ATOM	15440	CB	GLU	G	967	30.360	124.982	62.338	1.00	91.99	G
ATOM	15441	CG	GLU	G	967	29.328	125.037	63.442	1.00	91.99	G
ATOM	15442	CD	GLU	G	967	29.883	124.556	64.764	1.00	91.99	G
ATOM	15443	OE1	GLU	G	967	30.588	123.528	64.768	1.00	91.99	G
ATOM	15444	OE2	GLU	G	967	29.613	125.200	65.800	1.00	91.99	G
ATOM	15445	C	GLU	G	967	31.234	125.937	60.226	1.00	53.77	G
ATOM	15446	O	GLU	G	967	31.886	126.975	60.116	1.00	53.77	G
ATOM	15447	N	ALA	G	968	31.518	124.829	59.564	1.00	42.86	G
ATOM	15448	CA	ALA	G	968	32.615	124.819	58.634	1.00	42.86	G
ATOM	15449	CB	ALA	G	968	32.560	123.564	57.780	1.00	100.07	G
ATOM	15450	C	ALA	G	968	32.319	126.061	57.796	1.00	42.86	G
ATOM	15451	O	ALA	G	968	33.150	126.964	57.691	1.00	42.86	G
ATOM	15452	N	ASP	G	969	31.111	126.108	57.238	1.00	60.16	G
ATOM	15453	CA	ASP	G	969	30.682	127.242	56.426	1.00	60.16	G
ATOM	15454	CB	ASP	G	969	29.268	127.017	55.886	1.00	100.07	G
ATOM	15455	CG	ASP	G	969	29.192	125.866	54.908	1.00	100.07	G
ATOM	15456	OD1	ASP	G	969	29.842	125.939	53.841	1.00	100.07	G
ATOM	15457	OD2	ASP	G	969	28.476	124.888	55.206	1.00	100.07	G
ATOM	15458	C	ASP	G	969	30.703	128.524	57.253	1.00	60.16	G
ATOM	15459	O	ASP	G	969	31.718	128.838	57.867	1.00	60.16	G
ATOM	15460	N	ARG	G	970	29.565	129.229	57.281	1.00	66.13	G
ATOM	15461	CA	ARG	G	970	29.389	130.505	57.998	1.00	66.13	G
ATOM	15462	CB	ARG	G	970	28.495	130.340	59.247	1.00	100.07	G
ATOM	15463	CG	ARG	G	970	29.156	129.686	60.461	1.00	100.07	G
ATOM	15464	CD	ARG	G	970	28.290	129.738	61.734	1.00	100.07	G
ATOM	15465	NE	ARG	G	970	29.079	129.408	62.924	1.00	100.07	G
ATOM	15466	CZ	ARG	G	970	28.574	129.218	64.136	1.00	100.07	G
ATOM	15467	NH1	ARG	G	970	27.269	129.319	64.336	1.00	100.07	G
ATOM	15468	NH2	ARG	G	970	29.377	128.928	65.151	1.00	100.07	G
ATOM	15469	C	ARG	G	970	30.716	131.138	58.374	1.00	66.13	G
ATOM	15470	O	ARG	G	970	31.054	132.200	57.855	1.00	66.13	G
ATOM	15471	N	LYS	G	971	31.466	130.488	59.263	1.00	35.90	G
ATOM	15472	CA	LYS	G	971	32.777	130.973	59.666	1.00	35.90	G
ATOM	15473	CB	LYS	G	971	33.341	130.134	60.812	1.00	88.31	G
ATOM	15474	CG	LYS	G	971	32.571	130.325	62.110	1.00	88.31	G
ATOM	15475	CD	LYS	G	971	33.108	129.475	63.253	1.00	88.31	G
ATOM	15476	CE	LYS	G	971	32.252	129.658	64.495	1.00	88.31	G
ATOM	15477	NZ	LYS	G	971	32.805	128.925	65.659	1.00	88.31	G
ATOM	15478	C	LYS	G	971	33.671	130.866	58.438	1.00	35.90	G
ATOM	15479	O	LYS	G	971	34.901	130.803	58.554	1.00	35.90	G
ATOM	15480	N	LEU	G	972	33.015	130.839	57.269	1.00	52.38	G
ATOM	15481	CA	LEU	G	972	33.636	130.763	55.944	1.00	52.38	G
ATOM	15482	CB	LEU	G	972	32.990	129.654	55.100	1.00	78.81	G
ATOM	15483	CG	LEU	G	972	33.806	128.378	54.844	1.00	78.81	G
ATOM	15484	CD1	LEU	G	972	32.920	127.316	54.222	1.00	78.81	G
ATOM	15485	CD2	LEU	G	972	34.992	128.688	53.930	1.00	78.81	G
ATOM	15486	C	LEU	G	972	33.397	132.108	55.281	1.00	52.38	G
ATOM	15487	O	LEU	G	972	34.309	132.710	54.727	1.00	52.38	G
ATOM	15488	N	ARG	G	973	32.151	132.565	55.331	1.00	30.63	G
ATOM	15489	CA	ARG	G	973	31.800	133.863	54.776	1.00	30.63	G
ATOM	15490	CB	ARG	G	973	30.288	134.083	54.794	1.00	100.07	G
ATOM	15491	CG	ARG	G	973	29.478	133.043	54.042	1.00	100.07	G
ATOM	15492	CD	ARG	G	973	28.040	133.524	53.852	1.00	100.07	G
ATOM	15493	NE	ARG	G	973	27.192	132.529	53.194	1.00	100.07	G
ATOM	15494	CZ	ARG	G	973	26.032	132.802	52.598	1.00	100.07	G
ATOM	15495	NH1	ARG	G	973	25.574	134.047	52.567	1.00	100.07	G
ATOM	15496	NH2	ARG	G	973	25.322	131.827	52.039	1.00	100.07	G
ATOM	15497	C	ARG	G	973	32.464	134.843	55.728	1.00	30.63	G
ATOM	15498	O	ARG	G	973	32.840	135.946	55.343	1.00	30.63	G
ATOM	15499	N	GLN	G	974	32.599	134.431	56.987	1.00	51.16	G
ATOM	15500	CA	GLN	G	974	33.260	135.268	57.985	1.00	51.16	G
ATOM	15501	CB	GLN	G	974	33.129	134.678	59.408	1.00	99.53	G
ATOM	15502	CG	GLN	G	974	31.688	134.496	59.927	1.00	99.53	G

ATOM	15503	CD	GLN	G	974	31.607	134.163	61.424	1.00	99.53	G
ATOM	15504	OE1	GLN	G	974	32.313	133.287	61.928	1.00	99.53	G
ATOM	15505	NE2	GLN	G	974	30.727	134.859	62.129	1.00	99.53	G
ATOM	15506	C	GLN	G	974	34.735	135.321	57.580	1.00	51.16	G
ATOM	15507	O	GLN	G	974	35.537	136.038	58.188	1.00	51.16	G
ATOM	15508	N	ILE	G	975	35.076	134.532	56.559	1.00	73.80	G
ATOM	15509	CA	ILE	G	975	36.431	134.480	56.018	1.00	73.80	G
ATOM	15510	CB	ILE	G	975	36.876	133.048	55.639	1.00	69.60	G
ATOM	15511	CG2	ILE	G	975	38.374	133.046	55.334	1.00	69.60	G
ATOM	15512	CG1	ILE	G	975	36.519	132.062	56.750	1.00	69.60	G
ATOM	15513	CD	ILE	G	975	37.703	131.415	57.428	1.00	69.60	G
ATOM	15514	C	ILE	G	975	36.376	135.271	54.723	1.00	73.80	G
ATOM	15515	O	ILE	G	975	37.146	136.202	54.515	1.00	73.80	G
ATOM	15516	N	GLU	G	976	35.450	134.879	53.855	1.00	100.07	G
ATOM	15517	CA	GLU	G	976	35.260	135.533	52.564	1.00	100.07	G
ATOM	15518	CB	GLU	G	976	34.044	134.926	51.846	1.00	100.07	G
ATOM	15519	CG	GLU	G	976	34.101	133.401	51.687	1.00	100.07	G
ATOM	15520	CD	GLU	G	976	34.875	132.942	50.454	1.00	100.07	G
ATOM	15521	OE1	GLU	G	976	34.250	132.805	49.378	1.00	100.07	G
ATOM	15522	OE2	GLU	G	976	36.103	132.723	50.561	1.00	100.07	G
ATOM	15523	C	GLU	G	976	35.046	137.032	52.777	1.00	100.07	G
ATOM	15524	O	GLU	G	976	35.492	137.856	51.973	1.00	100.07	G
ATOM	15525	N	GLN	G	977	34.358	137.374	53.865	1.00	83.23	G
ATOM	15526	CA	GLN	G	977	34.090	138.767	54.187	1.00	83.23	G
ATOM	15527	CB	GLN	G	977	32.725	138.920	54.863	1.00	100.07	G
ATOM	15528	CG	GLN	G	977	31.546	138.556	53.958	1.00	100.07	G
ATOM	15529	CD	GLN	G	977	30.210	139.054	54.490	1.00	100.07	G
ATOM	15530	OE1	GLN	G	977	29.901	140.247	54.414	1.00	100.07	G
ATOM	15531	NE2	GLN	G	977	29.415	138.141	55.041	1.00	100.07	G
ATOM	15532	C	GLN	G	977	35.190	139.304	55.084	1.00	83.23	G
ATOM	15533	O	GLN	G	977	35.227	140.495	55.389	1.00	83.23	G
ATOM	15534	N	ALA	G	978	36.081	138.412	55.509	1.00	32.65	G
ATOM	15535	CA	ALA	G	978	37.218	138.798	56.343	1.00	32.65	G
ATOM	15536	CB	ALA	G	978	37.604	137.656	57.273	1.00	100.07	G
ATOM	15537	C	ALA	G	978	38.377	139.129	55.390	1.00	32.65	G
ATOM	15538	O	ALA	G	978	39.435	139.601	55.807	1.00	32.65	G
ATOM	15539	N	ALA	G	979	38.170	138.850	54.107	1.00	95.90	G
ATOM	15540	CA	ALA	G	979	39.175	139.143	53.099	1.00	95.90	G
ATOM	15541	CB	ALA	G	979	39.123	138.128	51.968	1.00	100.07	G
ATOM	15542	C	ALA	G	979	38.827	140.526	52.586	1.00	95.90	G
ATOM	15543	O	ALA	G	979	39.700	141.376	52.422	1.00	95.90	G
ATOM	15544	N	GLU	G	980	37.538	140.741	52.333	1.00	100.05	G
ATOM	15545	CA	GLU	G	980	37.050	142.033	51.870	1.00	100.05	G
ATOM	15546	CB	GLU	G	980	35.573	141.924	51.468	1.00	99.45	G
ATOM	15547	CG	GLU	G	980	35.306	140.904	50.353	1.00	99.45	G
ATOM	15548	CD	GLU	G	980	33.822	140.758	49.996	1.00	99.45	G
ATOM	15549	OE1	GLU	G	980	33.045	140.253	50.839	1.00	99.45	G
ATOM	15550	OE2	GLU	G	980	33.433	141.149	48.868	1.00	99.45	G
ATOM	15551	C	GLU	G	980	37.225	142.964	53.071	1.00	100.05	G
ATOM	15552	O	GLU	G	980	36.253	143.369	53.712	1.00	100.05	G
ATOM	15553	N	MET	G	981	38.489	143.270	53.365	1.00	71.76	G
ATOM	15554	CA	MET	G	981	38.909	144.114	54.484	1.00	71.76	G
ATOM	15555	CB	MET	G	981	38.143	143.754	55.758	1.00	45.47	G
ATOM	15556	CG	MET	G	981	37.002	144.675	56.121	1.00	45.47	G
ATOM	15557	SD	MET	G	981	35.923	143.864	57.316	1.00	45.47	G
ATOM	15558	CE	MET	G	981	34.615	143.305	56.204	1.00	45.47	G
ATOM	15559	C	MET	G	981	40.383	143.803	54.710	1.00	71.76	G
ATOM	15560	O	MET	G	981	41.166	143.726	53.762	1.00	71.76	G
ATOM	15561	N	GLY	G	982	40.746	143.606	55.971	1.00	75.90	G
ATOM	15562	CA	GLY	G	982	42.119	143.287	56.306	1.00	75.90	G
ATOM	15563	C	GLY	G	982	42.354	141.798	56.158	1.00	75.90	G
ATOM	15564	O	GLY	G	982	42.964	141.167	57.029	1.00	75.90	G
ATOM	15565	N	ALA	G	983	41.855	141.252	55.046	1.00	100.07	G
ATOM	15566	CA	ALA	G	983	41.964	139.830	54.702	1.00	100.07	G
ATOM	15567	CB	ALA	G	983	42.307	139.665	53.204	1.00	32.44	G
ATOM	15568	C	ALA	G	983	43.003	139.113	55.533	1.00	100.07	G
ATOM	15569	O	ALA	G	983	42.671	138.387	56.470	1.00	100.07	G
ATOM	15570	N	LEU	G	984	44.256	139.343	55.152	1.00	83.75	G
ATOM	15571	CA	LEU	G	984	45.453	138.777	55.764	1.00	83.75	G
ATOM	15572	CB	LEU	G	984	45.126	137.645	56.745	1.00	100.07	G
ATOM	15573	CG	LEU	G	984	44.647	138.015	58.151	1.00	100.07	G
ATOM	15574	CD1	LEU	G	984	44.551	136.742	58.987	1.00	100.07	G
ATOM	15575	CD2	LEU	G	984	45.608	139.012	58.796	1.00	100.07	G
ATOM	15576	C	LEU	G	984	46.338	138.225	54.654	1.00	83.75	G
ATOM	15577	O	LEU	G	984	47.294	137.492	54.923	1.00	83.75	G
ATOM	15578	N	THR	G	985	46.010	138.586	53.413	1.00	74.79	G
ATOM	15579	CA	THR	G	985	46.743	138.135	52.231	1.00	74.79	G
ATOM	15580	CB	THR	G	985	48.236	137.839	52.512	1.00	50.42	G
ATOM	15581	OG1	THR	G	985	48.754	138.751	53.489	1.00	50.42	G
ATOM	15582	CG2	THR	G	985	49.043	137.944	51.211	1.00	50.42	G
ATOM	15583	C	THR	G	985	46.154	136.822	51.741	1.00	74.79	G
ATOM	15584	O	THR	G	985	45.797	135.953	52.542	1.00	74.79	G
ATOM	15585	N	ASP	G	986	46.073	136.663	50.427	1.00	99.98	G
ATOM	15586	CA	ASP	G	986	45.546	135.429	49.860	1.00	99.98	G

ATOM	15587	CB	ASP	G	986	45.780	135.417	48.340	1.00	70.09	G
ATOM	15588	CG	ASP	G	986	44.960	134.362	47.623	1.00	70.09	G
ATOM	15589	OD1	ASP	G	986	43.716	134.381	47.743	1.00	70.09	G
ATOM	15590	OD2	ASP	G	986	45.564	133.518	46.928	1.00	70.09	G
ATOM	15591	C	ASP	G	986	46.287	134.273	50.551	1.00	99.98	G
ATOM	15592	O	ASP	G	986	45.659	133.376	51.113	1.00	99.98	G
ATOM	15593	N	ARG	G	987	47.620	134.333	50.533	1.00	78.96	G
ATOM	15594	CA	ARG	G	987	48.476	133.318	51.150	1.00	78.96	G
ATOM	15595	CB	ARG	G	987	49.862	133.885	51.463	1.00	100.07	G
ATOM	15596	CG	ARG	G	987	50.903	133.739	50.375	1.00	100.07	G
ATOM	15597	CD	ARG	G	987	52.304	133.890	50.976	1.00	100.07	G
ATOM	15598	NE	ARG	G	987	53.366	133.604	50.014	1.00	100.07	G
ATOM	15599	CZ	ARG	G	987	54.645	133.435	50.339	1.00	100.07	G
ATOM	15600	NH1	ARG	G	987	55.033	133.522	51.604	1.00	100.07	G
ATOM	15601	NH2	ARG	G	987	55.541	133.173	49.398	1.00	100.07	G
ATOM	15602	C	ARG	G	987	47.929	132.757	52.445	1.00	78.96	G
ATOM	15603	O	ARG	G	987	47.896	131.542	52.639	1.00	78.96	G
ATOM	15604	N	GLU	G	988	47.520	133.652	53.339	1.00	41.85	G
ATOM	15605	CA	GLU	G	988	47.013	133.241	54.639	1.00	41.85	G
ATOM	15606	CB	GLU	G	988	47.095	134.407	55.617	1.00	100.07	G
ATOM	15607	CG	GLU	G	988	48.452	135.095	55.588	1.00	100.07	G
ATOM	15608	CD	GLU	G	988	49.597	134.125	55.316	1.00	100.07	G
ATOM	15609	OE1	GLU	G	988	49.717	133.122	56.055	1.00	100.07	G
ATOM	15610	OE2	GLU	G	988	50.375	134.368	54.364	1.00	100.07	G
ATOM	15611	C	GLU	G	988	45.598	132.724	54.541	1.00	41.85	G
ATOM	15612	O	GLU	G	988	45.237	131.746	55.198	1.00	41.85	G
ATOM	15613	N	ARG	G	989	44.803	133.374	53.700	1.00	56.58	G
ATOM	15614	CA	ARG	G	989	43.423	132.964	53.505	1.00	56.58	G
ATOM	15615	CB	ARG	G	989	42.772	133.839	52.442	1.00	52.10	G
ATOM	15616	CG	ARG	G	989	41.293	134.030	52.648	1.00	52.10	G
ATOM	15617	CD	ARG	G	989	40.804	135.169	51.789	1.00	52.10	G
ATOM	15618	NE	ARG	G	989	39.617	134.794	51.032	1.00	52.10	G
ATOM	15619	CZ	ARG	G	989	39.570	133.783	50.172	1.00	52.10	G
ATOM	15620	NH1	ARG	G	989	40.650	133.033	49.954	1.00	52.10	G
ATOM	15621	NH2	ARG	G	989	38.437	133.523	49.531	1.00	52.10	G
ATOM	15622	C	ARG	G	989	43.408	131.489	53.090	1.00	56.58	G
ATOM	15623	O	ARG	G	989	42.542	130.730	53.521	1.00	56.58	G
ATOM	15624	N	TYR	G	990	44.366	131.094	52.248	1.00	100.07	G
ATOM	15625	CA	TYR	G	990	44.479	129.692	51.838	1.00	100.07	G
ATOM	15626	CB	TYR	G	990	45.761	129.407	51.030	1.00	89.18	G
ATOM	15627	CG	TYR	G	990	45.707	129.578	49.527	1.00	89.18	G
ATOM	15628	CD1	TYR	G	990	46.894	129.680	48.791	1.00	89.18	G
ATOM	15629	CE1	TYR	G	990	46.877	129.881	47.420	1.00	89.18	G
ATOM	15630	CD2	TYR	G	990	44.493	129.671	48.842	1.00	89.18	G
ATOM	15631	CE2	TYR	G	990	44.464	129.872	47.461	1.00	89.18	G
ATOM	15632	CZ	TYR	G	990	45.661	129.981	46.762	1.00	89.18	G
ATOM	15633	OH	TYR	G	990	45.651	130.229	45.412	1.00	89.18	G
ATOM	15634	C	TYR	G	990	44.660	128.993	53.167	1.00	100.07	G
ATOM	15635	O	TYR	G	990	43.753	128.339	53.685	1.00	100.07	G
ATOM	15636	N	ASP	G	991	45.858	129.177	53.715	1.00	45.67	G
ATOM	15637	CA	ASP	G	991	46.252	128.578	54.969	1.00	45.67	G
ATOM	15638	CB	ASP	G	991	47.458	129.321	55.530	1.00	54.88	G
ATOM	15639	CG	ASP	G	991	48.608	129.375	54.544	1.00	54.88	G
ATOM	15640	OD1	ASP	G	991	48.575	128.625	53.546	1.00	54.88	G
ATOM	15641	OD2	ASP	G	991	49.549	130.158	54.768	1.00	54.88	G
ATOM	15642	C	ASP	G	991	45.120	128.557	55.971	1.00	45.67	G
ATOM	15643	O	ASP	G	991	45.107	127.732	56.872	1.00	45.67	G
ATOM	15644	N	GLN	G	992	44.161	129.459	55.801	1.00	54.42	G
ATOM	15645	CA	GLN	G	992	43.008	129.534	56.695	1.00	54.42	G
ATOM	15646	CB	GLN	G	992	42.394	130.937	56.637	1.00	66.37	G
ATOM	15647	CG	GLN	G	992	41.570	131.321	57.846	1.00	66.37	G
ATOM	15648	CD	GLN	G	992	42.399	131.350	59.116	1.00	66.37	G
ATOM	15649	OE1	GLN	G	992	43.593	131.674	59.090	1.00	66.37	G
ATOM	15650	NE2	GLN	G	992	41.767	131.025	60.241	1.00	66.37	G
ATOM	15651	C	GLN	G	992	41.978	128.511	56.234	1.00	54.42	G
ATOM	15652	O	GLN	G	992	41.833	127.442	56.825	1.00	54.42	G
ATOM	15653	N	VAL	G	993	41.280	128.861	55.156	1.00	72.53	G
ATOM	15654	CA	VAL	G	993	40.253	128.016	54.564	1.00	72.53	G
ATOM	15655	CB	VAL	G	993	39.999	128.415	53.097	1.00	58.92	G
ATOM	15656	CG1	VAL	G	993	38.613	127.939	52.664	1.00	58.92	G
ATOM	15657	CG2	VAL	G	993	40.129	129.928	52.932	1.00	58.92	G
ATOM	15658	C	VAL	G	993	40.681	126.552	54.619	1.00	72.53	G
ATOM	15659	O	VAL	G	993	39.864	125.653	54.823	1.00	72.53	G
ATOM	15660	N	ILE	G	994	41.972	126.321	54.432	1.00	34.12	G
ATOM	15661	CA	ILE	G	994	42.505	124.975	54.484	1.00	34.12	G
ATOM	15662	CB	ILE	G	994	43.914	124.909	53.875	1.00	45.82	G
ATOM	15663	CG2	ILE	G	994	44.679	123.732	54.441	1.00	45.82	G
ATOM	15664	CG1	ILE	G	994	43.792	124.803	52.352	1.00	45.82	G
ATOM	15665	CD	ILE	G	994	45.011	125.269	51.567	1.00	45.82	G
ATOM	15666	C	ILE	G	994	42.555	124.555	55.931	1.00	34.12	G
ATOM	15667	O	ILE	G	994	41.850	123.640	56.346	1.00	34.12	G
ATOM	15668	N	GLN	G	995	43.375	125.241	56.710	1.00	43.22	G
ATOM	15669	CA	GLN	G	995	43.482	124.900	58.114	1.00	43.22	G
ATOM	15670	CB	GLN	G	995	44.263	125.970	58.874	1.00	100.07	G

ATOM	15671	CG	GLN	G	995	44.708	125.547	60.264	1.00100.07	G	
ATOM	15672	CD	GLN	G	995	45.751	126.484	60.847	1.00100.07	G	
ATOM	15673	OE1	GLN	G	995	45.488	127.669	61.077	1.00100.07	G	
ATOM	15674	NE2	GLN	G	995	46.949	125.958	61.083	1.00100.07	G	
ATOM	15675	C	GLN	G	995	42.071	124.791	58.657	1.00	43.22	G
ATOM	15676	O	GLN	G	995	41.827	124.107	59.646	1.00	43.22	G
ATOM	15677	N	LEU	G	996	41.134	125.471	58.010	1.00	48.66	G
ATOM	15678	CA	LEU	G	996	39.754	125.395	58.447	1.00	48.66	G
ATOM	15679	CB	LEU	G	996	38.888	126.424	57.714	1.00	24.68	G
ATOM	15680	CG	LEU	G	996	37.379	126.150	57.639	1.00	24.68	G
ATOM	15681	CD1	LEU	G	996	36.837	125.913	59.035	1.00	24.68	G
ATOM	15682	CD2	LEU	G	996	36.665	127.306	56.951	1.00	24.68	G
ATOM	15683	C	LEU	G	996	39.283	123.994	58.119	1.00	48.66	G
ATOM	15684	O	LEU	G	996	39.166	123.147	58.999	1.00	48.66	G
ATOM	15685	N	TRP	G	997	39.044	123.751	56.835	1.00	24.05	G
ATOM	15686	CA	TRP	G	997	38.561	122.458	56.387	1.00	24.05	G
ATOM	15687	CB	TRP	G	997	38.665	122.366	54.875	1.00	29.82	G
ATOM	15688	CG	TRP	G	997	37.605	123.170	54.247	1.00	29.82	G
ATOM	15689	CD2	TRP	G	997	36.191	123.017	54.431	1.00	29.82	G
ATOM	15690	CE2	TRP	G	997	35.557	124.006	53.649	1.00	29.82	G
ATOM	15691	CE3	TRP	G	997	35.398	122.136	55.179	1.00	29.82	G
ATOM	15692	CD1	TRP	G	997	37.769	124.212	53.395	1.00	29.82	G
ATOM	15693	NE1	TRP	G	997	36.545	124.724	53.026	1.00	29.82	G
ATOM	15694	CZ2	TRP	G	997	34.158	124.143	53.591	1.00	29.82	G
ATOM	15695	CZ3	TRP	G	997	34.009	122.270	55.122	1.00	29.82	G
ATOM	15696	CH2	TRP	G	997	33.405	123.268	54.331	1.00	29.82	G
ATOM	15697	C	TRP	G	997	39.293	121.329	57.060	1.00	24.05	G
ATOM	15698	O	TRP	G	997	38.693	120.333	57.460	1.00	24.05	G
ATOM	15699	N	THR	G	998	40.596	121.495	57.206	1.00	38.79	G
ATOM	15700	CA	THR	G	998	41.382	120.478	57.861	1.00	38.79	G
ATOM	15701	CB	THR	G	998	42.862	120.874	57.908	1.00	75.07	G
ATOM	15702	OG1	THR	G	998	43.425	120.758	56.595	1.00	75.07	G
ATOM	15703	CG2	THR	G	998	43.622	119.982	58.875	1.00	75.07	G
ATOM	15704	C	THR	G	998	40.837	120.343	59.270	1.00	38.79	G
ATOM	15705	O	THR	G	998	40.408	119.270	59.682	1.00	38.79	G
ATOM	15706	N	GLU	G	999	40.831	121.453	59.996	1.00	73.09	G
ATOM	15707	CA	GLU	G	999	40.344	121.486	61.367	1.00	73.09	G
ATOM	15708	CB	GLU	G	999	40.299	122.943	61.845	1.00	99.81	G
ATOM	15709	CG	GLU	G	999	39.789	123.164	63.261	1.00	99.81	G
ATOM	15710	CD	GLU	G	999	40.741	12				

ATOM	15755	CA	THR	G1005	35.617	111.912	61.692	1.00	29.83	G
ATOM	15756	CB	THR	G1005	37.144	112.039	61.555	1.00	100.07	G
ATOM	15757	OG1	THR	G1005	37.474	112.585	60.273	1.00	100.07	G
ATOM	15758	CG2	THR	G1005	37.803	110.682	61.717	1.00	100.07	G
ATOM	15759	C	THR	G1005	35.328	111.397	63.102	1.00	29.83	G
ATOM	15760	O	THR	G1005	34.555	110.461	63.302	1.00	29.83	G
ATOM	15761	N	GLN	G1006	35.968	112.032	64.078	1.00	20.60	G
ATOM	15762	CA	GLN	G1006	35.802	111.716	65.494	1.00	20.60	G
ATOM	15763	CB	GLN	G1006	36.556	112.772	66.307	1.00	99.92	G
ATOM	15764	CG	GLN	G1006	36.337	112.758	67.796	1.00	99.92	G
ATOM	15765	CD	GLN	G1006	36.748	114.077	68.425	1.00	99.92	G
ATOM	15766	OE1	GLN	G1006	36.080	115.100	68.253	1.00	99.92	G
ATOM	15767	NE2	GLN	G1006	37.862	114.065	69.142	1.00	99.92	G
ATOM	15768	C	GLN	G1006	34.307	111.732	65.841	1.00	20.60	G
ATOM	15769	O	GLN	G1006	33.881	111.172	66.841	1.00	20.60	G
ATOM	15770	N	ALA	G1007	33.515	112.382	64.995	1.00	31.60	G
ATOM	15771	CA	ALA	G1007	32.076	112.492	65.198	1.00	31.60	G
ATOM	15772	CB	ALA	G1007	31.524	113.653	64.391	1.00	95.22	G
ATOM	15773	C	ALA	G1007	31.433	111.210	64.750	1.00	31.60	G
ATOM	15774	O	ALA	G1007	31.092	110.357	65.563	1.00	31.60	G
ATOM	15775	N	VAL	G1008	31.276	111.090	63.438	1.00	32.17	G
ATOM	15776	CA	VAL	G1008	30.690	109.907	62.830	1.00	32.17	G
ATOM	15777	CB	VAL	G1008	30.996	109.855	61.349	1.00	100.07	G
ATOM	15778	CG1	VAL	G1008	30.366	108.621	60.752	1.00	100.07	G
ATOM	15779	CG2	VAL	G1008	30.492	111.112	60.679	1.00	100.07	G
ATOM	15780	C	VAL	G1008	31.239	108.630	63.446	1.00	32.17	G
ATOM	15781	O	VAL	G1008	30.519	107.653	63.636	1.00	32.17	G
ATOM	15782	N	PHE	G1009	32.524	108.650	63.762	1.00	59.69	G
ATOM	15783	CA	PHE	G1009	33.172	107.490	64.340	1.00	59.69	G
ATOM	15784	CB	PHE	G1009	34.681	107.590	64.169	1.00	53.76	G
ATOM	15785	CG	PHE	G1009	35.331	106.286	63.850	1.00	53.76	G
ATOM	15786	CD1	PHE	G1009	35.590	105.935	62.538	1.00	53.76	G
ATOM	15787	CD2	PHE	G1009	35.663	105.399	64.860	1.00	53.76	G
ATOM	15788	CE1	PHE	G1009	36.169	104.727	62.234	1.00	53.76	G
ATOM	15789	CE2	PHE	G1009	36.242	104.186	64.567	1.00	53.76	G
ATOM	15790	CZ	PHE	G1009	36.497	103.849	63.250	1.00	53.76	G
ATOM	15791	C	PHE	G1009	32.866	107.332	65.815	1.00	59.69	G
ATOM	15792	O	PHE	G1009	33.252	106.342	66.432	1.00	59.69	G
ATOM	15793	N	ASN	G1010	32.175	108.307	66.385	1.00	80.37	G
ATOM	15794	CA	ASN	G1010	31.854	108.250	67.804	1.00	80.37	G
ATOM	15795	CB	ASN	G1010	32.055	109.625	68.434	1.00	100.07	G
ATOM	15796	CG	ASN	G1010	32.197	109.554	69.929	1.00	100.07	G
ATOM	15797	OD1	ASN	G1010	31.345	108.984	70.613	1.00	100.07	G
ATOM	15798	ND2	ASN	G1010	33.280	110.130	70.453	1.00	100.07	G
ATOM	15799	C	ASN	G1010	30.425	107.789	68.035	1.00	80.37	G
ATOM	15800	O	ASN	G1010	30.128	107.112	69.026	1.00	80.37	G
ATOM	15801	N	ASN	G1011	29.553	108.163	67.100	1.00	51.35	G
ATOM	15802	CA	ASN	G1011	28.143	107.822	67.167	1.00	51.35	G
ATOM	15803	CB	ASN	G1011	27.463	108.003	65.807	1.00	24.43	G
ATOM	15804	CG	ASN	G1011	25.942	107.939	65.909	1.00	24.43	G
ATOM	15805	OD1	ASN	G1011	25.399	107.794	67.008	1.00	24.43	G
ATOM	15806	ND2	ASN	G1011	25.249	108.052	64.771	1.00	24.43	G
ATOM	15807	C	ASN	G1011	27.937	106.395	67.611	1.00	51.35	G
ATOM	15808	O	ASN	G1011	27.208	106.137	68.574	1.00	51.35	G
ATOM	15809	N	PHE	G1012	28.581	105.459	66.916	1.00	30.82	G
ATOM	15810	CA	PHE	G1012	28.387	104.069	67.276	1.00	30.82	G
ATOM	15811	CB	PHE	G1012	28.832	103.118	66.144	1.00	83.90	G
ATOM	15812	CG	PHE	G1012	30.308	102.907	66.051	1.00	83.90	G
ATOM	15813	CD1	PHE	G1012	31.076	103.653	65.171	1.00	83.90	G
ATOM	15814	CD2	PHE	G1012	30.931	101.937	66.830	1.00	83.90	G
ATOM	15815	CE1	PHE	G1012	32.449	103.435	65.067	1.00	83.90	G
ATOM	15816	CE2	PHE	G1012	32.297	101.712	66.737	1.00	83.90	G
ATOM	15817	CZ	PHE	G1012	33.060	102.460	65.854	1.00	83.90	G
ATOM	15818	C	PHE	G1012	29.030	103.703	68.600	1.00	30.82	G
ATOM	15819	O	PHE	G1012	28.472	102.904	69.364	1.00	30.82	G
ATOM	15820	N	GLU	G1013	30.165	104.312	68.918	1.00	19.23	G
ATOM	15821	CA	GLU	G1013	30.805	103.951	70.170	1.00	19.23	G
ATOM	15822	CB	GLU	G1013	31.945	104.902	70.523	1.00	100.07	G
ATOM	15823	CG	GLU	G1013	32.981	104.239	71.434	1.00	100.07	G
ATOM	15824	CD	GLU	G1013	33.979	105.221	72.032	1.00	100.07	G
ATOM	15825	OE1	GLU	G1013	33.603	105.950	72.980	1.00	100.07	G
ATOM	15826	OE2	GLU	G1013	35.138	105.269	71.552	1.00	100.07	G
ATOM	15827	C	GLU	G1013	29.790	103.928	71.303	1.00	19.23	G
ATOM	15828	O	GLU	G1013	29.998	103.259	72.307	1.00	19.23	G
ATOM	15829	N	GLU	G1014	28.682	104.639	71.136	1.00	57.43	G
ATOM	15830	CA	GLU	G1014	27.668	104.674	72.177	1.00	57.43	G
ATOM	15831	CB	GLU	G1014	27.414	106.110	72.616	1.00	99.43	G
ATOM	15832	CG	GLU	G1014	28.679	106.924	72.770	1.00	99.43	G
ATOM	15833	CD	GLU	G1014	28.407	108.312	73.290	1.00	99.43	G
ATOM	15834	OE1	GLU	G1014	27.410	108.931	72.857	1.00	99.43	G
ATOM	15835	OE2	GLU	G1014	29.200	108.785	74.126	1.00	99.43	G
ATOM	15836	C	GLU	G1014	26.376	104.054	71.696	1.00	57.43	G
ATOM	15837	O	GLU	G1014	25.816	103.206	72.372	1.00	57.43	G
ATOM	15838	N	ASN	G1015	25.888	104.493	70.543	1.00	74.08	G

ATOM	15923	CB	ALA	G1026	36.339	99.514	61.777	1.00	65.03	G
ATOM	15924	C	ALA	G1026	37.678	98.301	63.490	1.00	19.14	G
ATOM	15925	O	ALA	G1026	38.877	98.334	63.737	1.00	19.14	G
ATOM	15926	N	SER	G1027	36.754	98.305	64.437	1.00	48.99	G
ATOM	15927	CA	SER	G1027	37.101	98.315	65.851	1.00	48.99	G
ATOM	15928	CB	SER	G1027	35.852	98.000	66.671	1.00	100.07	G
ATOM	15929	OG	SER	G1027	35.212	96.830	66.183	1.00	100.07	G
ATOM	15930	C	SER	G1027	38.205	97.293	66.163	1.00	48.99	G
ATOM	15931	O	SER	G1027	38.736	97.237	67.277	1.00	48.99	G
ATOM	15932	N	GLY	G1028	38.548	96.487	65.168	1.00	18.82	G
ATOM	15933	CA	GLY	G1028	39.569	95.486	65.359	1.00	18.82	G
ATOM	15934	C	GLY	G1028	39.142	94.220	64.658	1.00	18.82	G
ATOM	15935	O	GLY	G1028	38.309	93.468	65.168	1.00	18.82	G
ATOM	15936	N	ALA	G1029	39.711	94.003	63.474	1.00	26.00	G
ATOM	15937	CA	ALA	G1029	39.420	92.835	62.643	1.00	26.00	G
ATOM	15938	CB	ALA	G1029	37.917	92.568	62.619	1.00	100.07	G
ATOM	15939	C	ALA	G1029	39.939	93.033	61.211	1.00	26.00	G
ATOM	15940	O	ALA	G1029	41.006	92.528	60.850	1.00	26.00	G
ATOM	15941	N	ALA	G1030	39.178	93.771	60.407	1.00	21.88	G
ATOM	15942	CA	ALA	G1030	39.565	94.026	59.033	1.00	21.88	G
ATOM	15943	CB	ALA	G1030	39.231	92.793	58.194	1.00	5.07	G
ATOM	15944	C	ALA	G1030	38.962	95.321	58.409	1.00	21.88	G
ATOM	15945	O	ALA	G1030	38.502	95.326	57.254	1.00	21.88	G
ATOM	15946	N	GLY	G1031	39.006	96.416	59.174	1.00	38.70	G
ATOM	15947	CA	GLY	G1031	38.482	97.698	58.716	1.00	38.70	G
ATOM	15948	C	GLY	G1031	39.555	98.728	58.388	1.00	38.70	G
ATOM	15949	O	GLY	G1031	40.404	98.443	57.559	1.00	38.70	G
ATOM	15950	N	ASN	G1032	39.501	99.902	59.032	1.00	39.45	G
ATOM	15951	CA	ASN	G1032	40.433	101.045	58.869	1.00	39.45	G
ATOM	15952	CB	ASN	G1032	41.222	100.955	57.546	1.00	58.33	G
ATOM	15953	CG	ASN	G1032	40.573	101.731	56.385	1.00	58.33	G
ATOM	15954	OD1	ASN	G1032	40.478	102.953	56.426	1.00	58.33	G
ATOM	15955	ND2	ASN	G1032	40.153	101.016	55.339	1.00	58.33	G
ATOM	15956	C	ASN	G1032	39.613	102.341	58.892	1.00	39.45	G
ATOM	15957	O	ASN	G1032	38.833	102.579	57.971	1.00	39.45	G
ATOM	15958	N	PRO	G1033	39.766	103.192	59.940	1.00	70.33	G
ATOM	15959	CD	PRO	G1033	40.675	103.006	61.077	1.00	19.66	G
ATOM	15960	CA	PRO	G1033	39.041	104.467	60.100	1.00	70.33	G
ATOM	15961	CB	PRO	G1033	39.534	104.995	61.442	1.00	19.66	G
ATOM	15962	CG	PRO	G1033	40.869	104.437	61.542	1.00	19.66	G
ATOM	15963	C	PRO	G1033	39.193	105.499	59.005	1.00	70.33	G
ATOM	15964	O	PRO	G1033	38.264	106.260	58.754	1.00	70.33	G
ATOM	15965	N	GLN	G1034	40.363	105.552	58.377	1.00	55.87	G
ATOM	15966	CA	GLN	G1034	40.563	106.481	57.275	1.00	55.87	G
ATOM	15967	CB	GLN	G1034	41.847	106.155	56.540	1.00	99.58	G
ATOM	15968	CG	GLN	G1034	43.027	105.991	57.436	1.00	99.58	G
ATOM	15969	CD	GLN	G1034	44.202	105.435	56.684	1.00	99.58	G
ATOM	15970	OE1	GLN	G1034	44.547	105.924	55.607	1.00	99.58	G
ATOM	15971	NE2	GLN	G1034	44.829	104.404	57.240	1.00	99.58	G
ATOM	15972	C	GLN	G1034	39.387	106.224	56.336	1.00	55.87	G
ATOM	15973	O	GLN	G1034	38.699	107.148	55.894	1.00	55.87	G
ATOM	15974	N	ALA	G1035	39.168	104.950	56.033	1.00	39.34	G
ATOM	15975	CA	ALA	G1035	38.067	104.562	55.177	1.00	39.34	G
ATOM	15976	CB	ALA	G1035	37.945	103.052	55.127	1.00	74.13	G
ATOM	15977	C	ALA	G1035	36.797	105.182	55.752	1.00	39.34	G
ATOM	15978	O	ALA	G1035	36.286	106.138	55.180	1.00	39.34	G
ATOM	15979	N	ILE	G1036	36.312	104.663	56.886	1.00	24.89	G
ATOM	15980	CA	ILE	G1036	35.095	105.176	57.530	1.00	24.89	G
ATOM	15981	CB	ILE	G1036	34.932	104.625	58.966	1.00	18.32	G
ATOM	15982	CG2	ILE	G1036	33.647	105.118	59.556	1.00	18.32	G
ATOM	15983	CG1	ILE	G1036	34.815	103.107	58.964	1.00	18.32	G
ATOM	15984	CD	ILE	G1036	36.084	102.410	58.683	1.00	18.32	G
ATOM	15985	C	ILE	G1036	35.060	106.715	57.592	1.00	24.89	G
ATOM	15986	O	ILE	G1036	34.034	107.340	57.269	1.00	24.89	G
ATOM	15987	N	ARG	G1037	36.179	107.314	58.011	1.00	42.24	G
ATOM	15988	CA	ARG	G1037	36.328	108.776	58.089	1.00	42.24	G
ATOM	15989	CB	ARG	G1037	37.740	109.148	58.567	1.00	100.07	G
ATOM	15990	CG	ARG	G1037	38.227	110.531	58.112	1.00	100.07	G
ATOM	15991	CD	ARG	G1037	39.709	110.730	58.357	1.00	100.07	G
ATOM	15992	NE	ARG	G1037	40.302	111.669	57.405	1.00	100.07	G
ATOM	15993	CZ	ARG	G1037	41.591	112.008	57.391	1.00	100.07	G
ATOM	15994	NH1	ARG	G1037	42.426	111.487	58.282	1.00	100.07	G
ATOM	15995	NH2	ARG	G1037	42.053	112.865	56.487	1.00	100.07	G
ATOM	15996	C	ARG	G1037	36.115	109.347	56.694	1.00	42.24	G
ATOM	15997	O	ARG	G1037	36.341	110.533	56.443	1.00	42.24	G
ATOM	15998	N	GLN	G1038	35.692	108.471	55.791	1.00	20.38	G
ATOM	15999	CA	GLN	G1038	35.439	108.809	54.409	1.00	20.38	G
ATOM	16000	CB	GLN	G1038	36.716	108.553	53.591	1.00	100.07	G
ATOM	16001	CG	GLN	G1038	36.659	107.425	52.584	1.00	100.07	G
ATOM	16002	CD	GLN	G1038	37.971	107.252	51.831	1.00	100.07	G
ATOM	16003	OE1	GLN	G1038	38.454	108.172	51.168	1.00	100.07	G
ATOM	16004	NE2	GLN	G1038	38.552	106.064	51.933	1.00	100.07	G
ATOM	16005	C	GLN	G1038	34.262	107.949	53.942	1.00	20.38	G
ATOM	16006	O	GLN	G1038	33.441	108.367	53.124	1.00	20.38	G

ATOM	16007	N	LEU	G1039	34.172	106.747	54.499	1.00	37.90	G
ATOM	16008	CA	LEU	G1039	33.092	105.834	54.165	1.00	37.90	G
ATOM	16009	CB	LEU	G1039	33.329	104.457	54.802	1.00	33.12	G
ATOM	16010	CG	LEU	G1039	33.478	103.330	53.774	1.00	33.12	G
ATOM	16011	CD1	LEU	G1039	33.916	102.022	54.422	1.00	33.12	G
ATOM	16012	CD2	LEU	G1039	32.153	103.161	53.080	1.00	33.12	G
ATOM	16013	C	LEU	G1039	31.801	106.448	54.688	1.00	37.90	G
ATOM	16014	O	LEU	G1039	30.810	106.518	53.965	1.00	37.90	G
ATOM	16015	N	CYS	G1040	31.822	106.918	55.934	1.00	100.07	G
ATOM	16016	CA	CYS	G1040	30.639	107.534	56.540	1.00	100.07	G
ATOM	16017	CB	CYS	G1040	30.544	107.153	58.013	1.00	57.75	G
ATOM	16018	SG	CYS	G1040	30.616	105.388	58.317	1.00	57.75	G
ATOM	16019	C	CYS	G1040	30.659	109.056	56.407	1.00	100.07	G
ATOM	16020	O	CYS	G1040	30.244	109.602	55.385	1.00	100.07	G
ATOM	16021	N	GLY	G1041	31.112	109.741	57.452	1.00	33.05	G
ATOM	16022	CA	GLY	G1041	31.185	111.189	57.394	1.00	33.05	G
ATOM	16023	C	GLY	G1041	32.155	111.521	56.283	1.00	33.05	G
ATOM	16024	O	GLY	G1041	32.978	110.677	55.914	1.00	33.05	G
ATOM	16025	N	MET	G1042	32.087	112.745	55.771	1.00	19.67	G
ATOM	16026	CA	MET	G1042	32.929	113.176	54.652	1.00	19.67	G
ATOM	16027	CB	MET	G1042	32.460	114.571	54.203	1.00	29.12	G
ATOM	16028	CG	MET	G1042	33.565	115.649	54.105	1.00	29.12	G
ATOM	16029	SD	MET	G1042	34.228	116.401	55.664	1.00	29.12	G
ATOM	16030	CE	MET	G1042	33.334	117.960	55.672	1.00	29.12	G
ATOM	16031	C	MET	G1042	34.466	113.176	54.717	1.00	19.67	G
ATOM	16032	O	MET	G1042	35.063	113.676	55.670	1.00	19.67	G
ATOM	16033	N	ARG	G1043	35.100	112.580	53.707	1.00	53.72	G
ATOM	16034	CA	ARG	G1043	36.561	112.640	53.571	1.00	53.72	G
ATOM	16035	CB	ARG	G1043	37.107	111.547	52.655	1.00	80.54	G
ATOM	16036	CG	ARG	G1043	36.553	111.586	51.215	1.00	80.54	G
ATOM	16037	CD	ARG	G1043	37.381	110.721	50.255	1.00	80.54	G
ATOM	16038	NE	ARG	G1043	36.770	110.562	48.933	1.00	80.54	G
ATOM	16039	CZ	ARG	G1043	37.404	110.060	47.874	1.00	80.54	G
ATOM	16040	NH1	ARG	G1043	38.666	109.673	47.977	1.00	80.54	G
ATOM	16041	NH2	ARG	G1043	36.778	109.936	46.713	1.00	80.54	G
ATOM	16042	C	ARG	G1043	36.386	113.885	52.746	1.00	53.72	G
ATOM	16043	O	ARG	G1043	35.242	114.187	52.405	1.00	53.72	G
ATOM	16044	N	GLY	G1044	37.421	114.630	52.385	1.00	61.65	G
ATOM	16045	CA	GLY	G1044	37.064	115.795	51.591	1.00	61.65	G
ATOM	16046	C	GLY	G1044	38.052	116.803	51.083	1.00	61.65	G
ATOM	16047	O	GLY	G1044	37.652	117.719	50.380	1.00	61.65	G
ATOM	16048	N	LEU	G1045	39.324	116.659	51.415	1.00	53.85	G
ATOM	16049	CA	LEU	G1045	40.289	117.627	50.931	1.00	53.85	G
ATOM	16050	CB	LEU	G1045	40.910	118.361	52.118	1.00	31.35	G
ATOM	16051	CG	LEU	G1045	41.210	119.843	51.879	1.00	31.35	G
ATOM	16052	CD1	LEU	G1045	40.043	120.485	51.123	1.00	31.35	G
ATOM	16053	CD2	LEU	G1045	41.458	120.543	53.221	1.00	31.35	G
ATOM	16054	C	LEU	G1045	41.366	117.001	50.051	1.00	53.85	G
ATOM	16055	O	LEU	G1045	42.457	116.677	50.509	1.00	53.85	G
ATOM	16056	N	MET	G1046	41.055	116.821	48.778	1.00	45.06	G
ATOM	16057	CA	MET	G1046	42.028	116.240	47.876	1.00	45.06	G
ATOM	16058	CB	MET	G1046	41.372	115.766	46.578	1.00	66.51	G
ATOM	16059	CG	MET	G1046	40.903	114.339	46.615	1.00	66.51	G
ATOM	16060	SD	MET	G1046	39.661	114.124	47.862	1.00	66.51	G
ATOM	16061	CE	MET	G1046	40.689	113.667	49.271	1.00	66.51	G
ATOM	16062	C	MET	G1046	43.099	117.241	47.532	1.00	45.06	G
ATOM	16063	O	MET	G1046	42.923	118.452	47.684	1.00	45.06	G
ATOM	16064	N	ALA	G1047	44.216	116.716	47.055	1.00	100.03	G
ATOM	16065	CA	ALA	G1047	45.328	117.544	46.656	1.00	100.03	G
ATOM	16066	CB	ALA	G1047	46.605	117.070	47.332	1.00	53.50	G
ATOM	16067	C	ALA	G1047	45.457	117.427	45.150	1.00	100.03	G
ATOM	16068	O	ALA	G1047	45.187	116.376	44.567	1.00	100.03	G
ATOM	16069	N	ALA	G1048	45.844	118.524	44.519	1.00	100.07	G
ATOM	16070	CA	ALA	G1048	46.047	118.542	43.083	1.00	100.07	G
ATOM	16071	CB	ALA	G1048	46.364	119.973	42.633	1.00	19.35	G
ATOM	16072	C	ALA	G1048	47.245	117.632	42.840	1.00	100.07	G
ATOM	16073	O	ALA	G1048	47.790	117.057	43.779	1.00	100.07	G
ATOM	16074	N	PRO	G1049	47.648	117.451	41.580	1.00	55.87	G
ATOM	16075	CD	PRO	G1049	46.985	117.756	40.306	1.00	30.75	G
ATOM	16076	CA	PRO	G1049	48.810	116.591	41.359	1.00	55.87	G
ATOM	16077	CB	PRO	G1049	48.784	116.360	39.858	1.00	30.75	G
ATOM	16078	CG	PRO	G1049	48.109	117.590	39.345	1.00	30.75	G
ATOM	16079	C	PRO	G1049	50.065	117.340	41.798	1.00	55.87	G
ATOM	16080	O	PRO	G1049	51.047	116.737	42.241	1.00	55.87	G
ATOM	16081	N	SER	G1050	50.008	118.666	41.684	1.00	90.84	G
ATOM	16082	CA	SER	G1050	51.122	119.544	42.050	1.00	90.84	G
ATOM	16083	CB	SER	G1050	51.060	120.835	41.228	1.00	93.57	G
ATOM	16084	OG	SER	G1050	49.903	121.593	41.549	1.00	93.57	G
ATOM	16085	C	SER	G1050	51.137	119.912	43.532	1.00	90.84	G
ATOM	16086	O	SER	G1050	51.320	121.080	43.877	1.00	90.84	G
ATOM	16087	N	GLY	G1051	50.942	118.918	44.397	1.00	68.75	G
ATOM	16088	CA	GLY	G1051	50.937	119.151	45.836	1.00	68.75	G
ATOM	16089	C	GLY	G1051	49.827	120.045	46.371	1.00	68.75	G
ATOM	16090	O	GLY	G1051	49.215	119.749	47.395	1.00	68.75	G

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ATOM	16091	N	ALA	G1052	49.575	121.148	45.678	1.00	37.38	G
ATOM	16092	CA	ALA	G1052	48.552	122.099	46.076	1.00	37.38	G
ATOM	16093	CB	ALA	G1052	48.304	123.098	44.930	1.00	36.85	G
ATOM	16094	C	ALA	G1052	47.249	121.401	46.476	1.00	37.38	G
ATOM	16095	O	ALA	G1052	46.880	120.372	45.904	1.00	37.38	G
ATOM	16096	N	THR	G1053	46.567	121.963	47.472	1.00	47.47	G
ATOM	16097	CA	THR	G1053	45.294	121.424	47.956	1.00	47.47	G
ATOM	16098	CB	THR	G1053	45.148	121.581	49.483	1.00	100.07	G
ATOM	16099	OG1	THR	G1053	46.060	120.700	50.149	1.00	100.07	G
ATOM	16100	CG2	THR	G1053	43.722	121.266	49.916	1.00	100.07	G
ATOM	16101	C	THR	G1053	44.132	122.165	47.317	1.00	47.47	G
ATOM	16102	O	THR	G1053	44.203	123.376	47.079	1.00	47.47	G
ATOM	16103	N	PHE	G1054	43.054	121.444	47.046	1.00	54.78	G
ATOM	16104	CA	PHE	G1054	41.905	122.089	46.448	1.00	54.78	G
ATOM	16105	CB	PHE	G1054	41.107	121.090	45.616	1.00	38.67	G
ATOM	16106	CG	PHE	G1054	41.775	120.722	44.312	1.00	38.67	G
ATOM	16107	CD1	PHE	G1054	42.420	119.499	44.158	1.00	38.67	G
ATOM	16108	CD2	PHE	G1054	41.748	121.597	43.232	1.00	38.67	G
ATOM	16109	CE1	PHE	G1054	43.014	119.159	42.951	1.00	38.67	G
ATOM	16110	CE2	PHE	G1054	42.346	121.260	42.024	1.00	38.67	G
ATOM	16111	CZ	PHE	G1054	42.974	120.045	41.884	1.00	38.67	G
ATOM	16112	C	PHE	G1054	41.031	122.751	47.504	1.00	54.78	G
ATOM	16113	O	PHE	G1054	40.428	122.082	48.346	1.00	54.78	G
ATOM	16114	N	GLU	G1055	40.993	124.079	47.435	1.00	58.79	G
ATOM	16115	CA	GLU	G1055	40.240	124.926	48.341	1.00	58.79	G
ATOM	16116	CB	GLU	G1055	40.417	126.379	47.892	1.00	98.67	G
ATOM	16117	CG	GLU	G1055	39.668	127.417	48.708	1.00	98.67	G
ATOM	16118	CD	GLU	G1055	40.077	128.838	48.360	1.00	98.67	G
ATOM	16119	OE1	GLU	G1055	40.192	129.150	47.156	1.00	98.67	G
ATOM	16120	OE2	GLU	G1055	40.276	129.649	49.289	1.00	98.67	G
ATOM	16121	C	GLU	G1055	38.749	124.583	48.490	1.00	58.79	G
ATOM	16122	O	GLU	G1055	37.997	125.343	49.100	1.00	58.79	G
ATOM	16123	N	VAL	G1056	38.313	123.445	47.945	1.00	36.77	G
ATOM	16124	CA	VAL	G1056	36.906	123.026	48.059	1.00	36.77	G
ATOM	16125	CB	VAL	G1056	36.123	123.284	46.760	1.00	35.12	G
ATOM	16126	CG1	VAL	G1056	34.649	122.929	46.958	1.00	35.12	G
ATOM	16127	CG2	VAL	G1056	36.287	124.741	46.337	1.00	35.12	G
ATOM	16128	C	VAL	G1056	36.788	121.542	48.391	1.00	36.77	G
ATOM	16129	O	VAL	G1056	37.109	120.691	47.576	1.00	36.77	G
ATOM	16130	N	PRO	G1057	36.327	121.220	49.605	1.00	45.23	G
ATOM	16131	CD	PRO	G1057	35.995	122.170	50.679	1.00	100.07	G
ATOM	16132	CA	PRO	G1057	36.159	119.844	50.071	1.00	45.23	G
ATOM	16133	CB	PRO	G1057	35.880	120.014	51.559	1.00	100.07	G
ATOM	16134	CG	PRO	G1057	35.181	121.313	51.618	1.00	100.07	G
ATOM	16135	C	PRO	G1057	35.064	119.081	49.340	1.00	45.23	G
ATOM	16136	O	PRO	G1057	34.674	119.474	48.230	1.00	45.23	G
ATOM	16137	N	VAL	G1058	34.554	118.011	49.958	1.00	49.19	G
ATOM	16138	CA	VAL	G1058	33.544	117.197	49.287	1.00	49.19	G
ATOM	16139	CB	VAL	G1058	34.187	115.907	48.756	1.00	67.57	G
ATOM	16140	CG1	VAL	G1058	33.615	115.586	47.374	1.00	67.57	G
ATOM	16141	CG2	VAL	G1058	35.707	116.046	48.730	1.00	67.57	G
ATOM	16142	C	VAL	G1058	32.235	116.773	49.971	1.00	49.19	G
ATOM	16143	O	VAL	G1058	32.082	116.845	51.190	1.00	49.19	G
ATOM	16144	N	ALA	G1059	31.299	116.318	49.133	1.00	56.79	G
ATOM	16145	CA	ALA	G1059	29.991	115.810	49.566	1.00	56.79	G
ATOM	16146	CB	ALA	G1059	28.936	116.016	48.480	1.00	53.14	G
ATOM	16147	C	ALA	G1059	30.278	114.346	49.699	1.00	56.79	G
ATOM	16148	O	ALA	G1059	29.563	113.504	49.168	1.00	56.79	G
ATOM	16149	N	SER	G1060	31.344	114.065	50.423	1.00	44.75	G
ATOM	16150	CA	SER	G1060	31.822	112.715	50.583	1.00	44.75	G
ATOM	16151	CB	SER	G1060	33.166	112.735	51.307	1.00	100.07	G
ATOM	16152	OG	SER	G1060	34.187	113.222	50.453	1.00	100.07	G
ATOM	16153	C	SER	G1060	30.948	111.665	51.213	1.00	44.75	G
ATOM	16154	O	SER	G1060	31.382	110.525	51.330	1.00	44.75	G
ATOM	16155	N	SER	G1061	29.735	112.002	51.620	1.00	91.29	G
ATOM	16156	CA	SER	G1061	28.906	110.978	52.234	1.00	91.29	G
ATOM	16157	CB	SER	G1061	27.421	111.250	51.961	1.00	31.24	G
ATOM	16158	OG	SER	G1061	26.868	112.171	52.893	1.00	31.24	G
ATOM	16159	C	SER	G1061	29.302	109.574	51.729	1.00	91.29	G
ATOM	16160	O	SER	G1061	29.409	108.642	52.528	1.00	91.29	G
ATOM	16161	N	PHE	G1062	29.577	109.451	50.422	1.00	60.01	G
ATOM	16162	CA	PHE	G1062	29.941	108.173	49.774	1.00	60.01	G
ATOM	16163	CB	PHE	G1062	31.177	107.531	50.426	1.00	59.48	G
ATOM	16164	CG	PHE	G1062	32.367	107.356	49.481	1.00	59.48	G
ATOM	16165	CD1	PHE	G1062	32.912	108.438	48.793	1.00	59.48	G
ATOM	16166	CD2	PHE	G1062	32.977	106.117	49.330	1.00	59.48	G
ATOM	16167	CE1	PHE	G1062	34.048	108.281	47.977	1.00	59.48	G
ATOM	16168	CE2	PHE	G1062	34.107	105.961	48.518	1.00	59.48	G
ATOM	16169	CZ	PHE	G1062	34.638	107.044	47.846	1.00	59.48	G
ATOM	16170	C	PHE	G1062	28.721	107.280	49.934	1.00	60.01	G
ATOM	16171	O	PHE	G1062	28.233	106.696	48.976	1.00	60.01	G
ATOM	16172	N	ARG	G1063	28.231	107.197	51.164	1.00	63.31	G
ATOM	16173	CA	ARG	G1063	27.027	106.458	51.483	1.00	63.31	G
ATOM	16174	CB	ARG	G1063	26.768	106.528	52.997	1.00	46.23	G

ATOM	16259	CD	ILE	G1073	37.044	118.837	41.302	1.00	28.53	G
ATOM	16260	C	ILE	G1073	39.975	115.516	42.556	1.00	20.50	G
ATOM	16261	O	ILE	G1073	41.208	115.458	42.667	1.00	20.50	G
ATOM	16262	N	SER	G1074	39.177	114.583	43.063	1.00	48.50	G
ATOM	16263	CA	SER	G1074	39.747	113.474	43.815	1.00	48.50	G
ATOM	16264	CB	SER	G1074	38.648	112.735	44.576	1.00	72.43	G
ATOM	16265	OG	SER	G1074	37.802	112.045	43.684	1.00	72.43	G
ATOM	16266	C	SER	G1074	40.505	112.488	42.924	1.00	48.50	G
ATOM	16267	O	SER	G1074	41.507	111.896	43.346	1.00	48.50	G
ATOM	16268	N	SER	G1075	40.034	112.332	41.688	1.00	35.08	G
ATOM	16269	CA	SER	G1075	40.633	111.400	40.732	1.00	35.08	G
ATOM	16270	CB	SER	G1075	39.968	111.554	39.354	1.00	34.50	G
ATOM	16271	OG	SER	G1075	40.301	112.777	38.717	1.00	34.50	G
ATOM	16272	C	SER	G1075	42.147	111.497	40.573	1.00	35.08	G
ATOM	16273	O	SER	G1075	42.787	110.565	40.087	1.00	35.08	G
ATOM	16274	N	HIS	G1076	42.719	112.616	40.997	1.00	36.55	G
ATOM	16275	CA	HIS	G1076	44.153	112.832	40.863	1.00	36.55	G
ATOM	16276	CB	HIS	G1076	44.486	114.286	41.179	1.00	57.34	G
ATOM	16277	CG	HIS	G1076	43.813	115.252	40.263	1.00	57.34	G
ATOM	16278	CD2	HIS	G1076	42.499	115.488	40.030	1.00	57.34	G
ATOM	16279	ND1	HIS	G1076	44.511	116.060	39.393	1.00	57.34	G
ATOM	16280	CE1	HIS	G1076	43.654	116.751	38.662	1.00	57.34	G
ATOM	16281	NE2	HIS	G1076	42.428	116.421	39.028	1.00	57.34	G
ATOM	16282	C	HIS	G1076	44.996	111.917	41.715	1.00	36.55	G
ATOM	16283	O	HIS	G1076	45.540	110.930	41.228	1.00	36.55	G
ATOM	16284	N	GLY	G1077	45.118	112.262	42.987	1.00	47.07	G
ATOM	16285	CA	GLY	G1077	45.910	111.443	43.878	1.00	47.07	G
ATOM	16286	C	GLY	G1077	45.578	109.996	43.624	1.00	47.07	G
ATOM	16287	O	GLY	G1077	46.477	109.174	43.428	1.00	47.07	G
ATOM	16288	N	ALA	G1078	44.276	109.708	43.607	1.00	44.33	G
ATOM	16289	CA	ALA	G1078	43.766	108.365	43.378	1.00	44.33	G
ATOM	16290	CB	ALA	G1078	42.358	108.439	42.848	1.00	81.23	G
ATOM	16291	C	ALA	G1078	44.670	107.648	42.386	1.00	44.33	G
ATOM	16292	O	ALA	G1078	45.080	106.507	42.614	1.00	44.33	G
ATOM	16293	N	ARG	G1079	44.974	108.324	41.282	1.00	30.21	G
ATOM	16294	CA	ARG	G1079	45.866	107.762	40.278	1.00	30.21	G
ATOM	16295	CB	ARG	G1079	45.807	108.557	38.978	1.00	26.71	G
ATOM	16296	CG	ARG	G1079	44.652	108.157	38.068	1.00	26.71	G
ATOM	16297	CD	ARG	G1079	45.009	106.964	37.178	1.00	26.71	G
ATOM	16298	NE	ARG	G1079	44.777	107.315	35.784	1.00	26.71	G
ATOM	16299	CZ	ARG	G1079	45.529	108.166	35.108	1.00	26.71	G
ATOM	16300	NH1	ARG	G1079	46.569	108.739	35.681	1.00	26.71	G
ATOM	16301	NH2	ARG	G1079	45.213	108.479	33.875	1.00	26.71	G
ATOM	16302	C	ARG	G1079	47.251	107.856	40.858	1.00	30.21	G
ATOM	16303	O	ARG	G1079	47.695	106.941	41.527	1.00	30.21	G
ATOM	16304	N	LYS	G1080	47.914	108.982	40.623	1.00	43.68	G
ATOM	16305	CA	LYS	G1080	49.268	109.212	41.125	1.00	43.68	G
ATOM	16306	CB	LYS	G1080	49.406	110.674	41.583	1.00	99.72	G
ATOM	16307	CG	LYS	G1080	50.839	111.208	41.550	1.00	99.72	G
ATOM	16308	CD	LYS	G1080	50.942	112.633	42.092	1.00	99.72	G
ATOM	16309	CE	LYS	G1080	52.395	113.128	42.089	1.00	99.72	G
ATOM	16310	NZ	LYS	G1080	52.579	114.480	42.710	1.00	99.72	G
ATOM	16311	C	LYS	G1080	49.674	108.251	42.265	1.00	43.68	G
ATOM	16312	O	LYS	G1080	50.712	107.585	42.199	1.00	43.68	G
ATOM	16313	N	GLY	G1081	48.856	108.172	43.308	1.00	73.58	G
ATOM	16314	CA	GLY	G1081	49.183	107.275	44.401	1.00	73.58	G
ATOM	16315	C	GLY	G1081	49.310	105.844	43.908	1.00	73.58	G
ATOM	16316	O	GLY	G1081	49.663	104.936	44.664	1.00	73.58	G
ATOM	16317	N	GLY	G1082	49.019	105.657	42.625	1.00	20.82	G
ATOM	16318	CA	GLY	G1082	49.080	104.348	41.997	1.00	20.82	G
ATOM	16319	C	GLY	G1082	50.159	104.328	40.936	1.00	20.82	G
ATOM	16320	O	GLY	G1082	50.289	103.380	40.146	1.00	20.82	G
ATOM	16321	N	ALA	G1083	50.911	105.422	40.903	1.00	56.23	G
ATOM	16322	CA	ALA	G1083	52.033	105.555	40.001	1.00	56.23	G
ATOM	16323	CB	ALA	G1083	52.226	107.007	39.608	1.00	41.31	G
ATOM	16324	C	ALA	G1083	53.201	105.034	40.859	1.00	56.23	G
ATOM	16325	O	ALA	G1083	54.294	104.761	40.363	1.00	56.23	G
ATOM	16326	N	ASP	G1084	52.951	104.911	42.163	1.00	49.26	G
ATOM	16327	CA	ASP	G1084	53.929	104.345	43.086	1.00	49.26	G
ATOM	16328	CB	ASP	G1084	53.510	104.542	44.548	1.00	99.92	G
ATOM	16329	CG	ASP	G1084	54.124	105.771	45.178	1.00	99.92	G
ATOM	16330	OD1	ASP	G1084	55.339	105.990	44.995	1.00	99.92	G
ATOM	16331	OD2	ASP	G1084	53.393	106.508	45.875	1.00	99.92	G
ATOM	16332	C	ASP	G1084	53.811	102.864	42.750	1.00	49.26	G
ATOM	16333	O	ASP	G1084	54.794	102.124	42.732	1.00	49.26	G
ATOM	16334	N	THR	G1085	52.572	102.452	42.486	1.00	93.32	G
ATOM	16335	CA	THR	G1085	52.234	101.081	42.118	1.00	93.32	G
ATOM	16336	CB	THR	G1085	50.767	101.017	41.631	1.00	71.01	G
ATOM	16337	OG1	THR	G1085	49.894	101.317	42.728	1.00	71.01	G
ATOM	16338	CG2	THR	G1085	50.429	99.648	41.075	1.00	71.01	G
ATOM	16339	C	THR	G1085	53.179	100.589	41.019	1.00	93.32	G
ATOM	16340	O	THR	G1085	53.247	99.397	40.723	1.00	93.32	G
ATOM	16341	N	ALA	G1086	53.905	101.522	40.412	1.00	100.07	G
ATOM	16342	CA	ALA	G1086	54.872	101.184	39.378	1.00	100.07	G

ATOM	16343	CB	ALA	G1086	55.547	102.450	38.846	1.00	80.76	G
ATOM	16344	C	ALA	G1086	55.900	100.296	40.057	1.00	100.07	G
ATOM	16345	O	ALA	G1086	56.518	99.441	39.425	1.00	100.07	G
ATOM	16346	N	LEU	G1087	56.067	100.515	41.358	1.00	86.97	G
ATOM	16347	CA	LEU	G1087	57.003	99.756	42.172	1.00	86.97	G
ATOM	16348	CB	LEU	G1087	57.264	100.492	43.480	1.00	84.06	G
ATOM	16349	CG	LEU	G1087	58.265	99.852	44.440	1.00	84.06	G
ATOM	16350	CD1	LEU	G1087	59.645	99.895	43.834	1.00	84.06	G
ATOM	16351	CD2	LEU	G1087	58.251	100.594	45.775	1.00	84.06	G
ATOM	16352	C	LEU	G1087	56.485	98.345	42.471	1.00	86.97	G
ATOM	16353	O	LEU	G1087	56.336	97.958	43.628	1.00	86.97	G
ATOM	16354	N	ARG	G1088	56.193	97.591	41.414	1.00	99.83	G
ATOM	16355	CA	ARG	G1088	55.729	96.212	41.532	1.00	99.83	G
ATOM	16356	CB	ARG	G1088	54.553	95.942	40.591	1.00	100.07	G
ATOM	16357	CG	ARG	G1088	54.402	94.462	40.249	1.00	100.07	G
ATOM	16358	CD	ARG	G1088	53.293	94.194	39.250	1.00	100.07	G
ATOM	16359	NE	ARG	G1088	53.239	92.777	38.890	1.00	100.07	G
ATOM	16360	CZ	ARG	G1088	52.197	92.187	38.306	1.00	100.07	G
ATOM	16361	NH1	ARG	G1088	51.108	92.887	38.012	1.00	100.07	G
ATOM	16362	NH2	ARG	G1088	52.241	90.892	38.015	1.00	100.07	G
ATOM	16363	C	ARG	G1088	56.897	95.327	41.123	1.00	99.83	G
ATOM	16364	O	ARG	G1088	57.164	94.300	41.750	1.00	99.83	G
ATOM	16365	N	THR	G1089	57.578	95.735	40.052	1.00	47.42	G
ATOM	16366	CA	THR	G1089	58.729	95.007	39.540	1.00	47.42	G
ATOM	16367	CB	THR	G1089	58.886	95.212	38.020	1.00	100.07	G
ATOM	16368	OG1	THR	G1089	58.031	94.290	37.329	1.00	100.07	G
ATOM	16369	CG2	THR	G1089	60.332	94.993	37.586	1.00	100.07	G
ATOM	16370	C	THR	G1089	59.979	95.492	40.263	1.00	47.42	G
ATOM	16371	O	THR	G1089	60.905	94.718	40.533	1.00	47.42	G
ATOM	16372	N	ALA	G1090	60.005	96.777	40.580	1.00	100.07	G
ATOM	16373	CA	ALA	G1090	61.137	97.317	41.305	1.00	100.07	G
ATOM	16374	CB	ALA	G1090	61.026	98.838	41.383	1.00	100.07	G
ATOM	16375	C	ALA	G1090	61.176	96.675	42.716	1.00	100.07	G
ATOM	16376	O	ALA	G1090	60.951	97.328	43.749	1.00	100.07	G
ATOM	16377	N	ASP	G1091	61.443	95.369	42.717	1.00	53.59	G
ATOM	16378	CA	ASP	G1091	61.560	94.536	43.913	1.00	53.59	G
ATOM	16379	CB	ASP	G1091	60.204	93.931	44.289	1.00	100.07	G
ATOM	16380	CG	ASP	G1091	59.757	92.837	43.327	1.00	100.07	G
ATOM	16381	OD1	ASP	G1091	59.722	93.080	42.101	1.00	100.07	G
ATOM	16382	OD2	ASP	G1091	59.431	91.731	43.805	1.00	100.07	G
ATOM	16383	C	ASP	G1091	62.490	93.453	43.399	1.00	53.59	G
ATOM	16384	O	ASP	G1091	63.373					

ATOM	16427	NE	ARG	G1097	68.074	91.432	41.234	1.00	30.60	G
ATOM	16428	CZ	ARG	G1097	67.467	90.257	41.381	1.00	30.60	G
ATOM	16429	NH1	ARG	G1097	68.095	89.239	41.949	1.00	30.60	G
ATOM	16430	NH2	ARG	G1097	66.228	90.093	40.944	1.00	30.60	G
ATOM	16431	C	ARG	G1097	70.388	92.219	46.181	1.00	41.74	G
ATOM	16432	O	ARG	G1097	71.259	91.552	46.750	1.00	41.74	G
ATOM	16433	N	LYS	G1098	70.437	93.541	46.077	1.00	42.11	G
ATOM	16434	CA	LYS	G1098	71.577	94.290	46.587	1.00	42.11	G
ATOM	16435	CB	LYS	G1098	71.287	95.794	46.517	1.00	64.01	G
ATOM	16436	CG	LYS	G1098	70.912	96.233	45.104	1.00	64.01	G
ATOM	16437	CD	LYS	G1098	71.387	97.629	44.751	1.00	64.01	G
ATOM	16438	CE	LYS	G1098	71.324	97.817	43.238	1.00	64.01	G
ATOM	16439	NZ	LYS	G1098	71.881	99.118	42.752	1.00	64.01	G
ATOM	16440	C	LYS	G1098	71.990	93.866	48.000	1.00	42.11	G
ATOM	16441	O	LYS	G1098	73.178	93.832	48.317	1.00	42.11	G
ATOM	16442	N	LEU	G1099	71.029	93.514	48.844	1.00	27.56	G
ATOM	16443	CA	LEU	G1099	71.385	93.095	50.187	1.00	27.56	G
ATOM	16444	CB	LEU	G1099	70.205	93.224	51.146	1.00	19.19	G
ATOM	16445	CG	LEU	G1099	69.967	94.623	51.696	1.00	19.19	G
ATOM	16446	CD1	LEU	G1099	69.308	95.475	50.634	1.00	19.19	G
ATOM	16447	CD2	LEU	G1099	69.098	94.539	52.928	1.00	19.19	G
ATOM	16448	C	LEU	G1099	71.906	91.678	50.254	1.00	27.56	G
ATOM	16449	O	LEU	G1099	72.923	91.427	50.896	1.00	27.56	G
ATOM	16450	N	VAL	G1100	71.217	90.748	49.603	1.00	50.00	G
ATOM	16451	CA	VAL	G1100	71.642	89.356	49.656	1.00	50.00	G
ATOM	16452	CB	VAL	G1100	70.719	88.428	48.849	1.00	23.71	G
ATOM	16453	CG1	VAL	G1100	70.939	86.991	49.293	1.00	23.71	G
ATOM	16454	CG2	VAL	G1100	69.277	88.826	49.024	1.00	23.71	G
ATOM	16455	C	VAL	G1100	73.056	89.170	49.132	1.00	50.00	G
ATOM	16456	O	VAL	G1100	73.817	88.355	49.674	1.00	50.00	G
ATOM	16457	N	ASP	G1101	73.392	89.918	48.076	1.00	90.08	G
ATOM	16458	CA	ASP	G1101	74.715	89.856	47.456	1.00	90.08	G
ATOM	16459	CB	ASP	G1101	74.790	90.774	46.235	1.00	70.60	G
ATOM	16460	CG	ASP	G1101	74.333	90.090	44.954	1.00	70.60	G
ATOM	16461	OD1	ASP	G1101	74.641	88.888	44.775	1.00	70.60	G
ATOM	16462	OD2	ASP	G1101	73.684	90.761	44.116	1.00	70.60	G
ATOM	16463	C	ASP	G1101	75.794	90.261	48.447	1.00	90.08	G
ATOM	16464	O	ASP	G1101	76.888	89.698	48.454	1.00	90.08	G
ATOM	16465	N	VAL	G1102	75.479	91.258	49.269	1.00	37.65	G
ATOM	16466	CA	VAL	G1102	76.386	91.753	50.302	1.00	37.65	G
ATOM	16467	CB	VAL	G1102	76.268	93.275	50.477	1.00	32.78	G
ATOM	16468	CG1	VAL	G1102	77.236	93.745	51.511	1.00	32.78	G
ATOM	16469	CG2	VAL	G1102	76.509	93.977	49.175	1.00	32.78	G
ATOM	16470	C	VAL	G1102	75.850	91.151	51.577	1.00	37.65	G
ATOM	16471	O	VAL	G1102	75.069	91.812	52.245	1.00	37.65	G
ATOM	16472	N	ALA	G1103	76.238	89.919	51.907	1.00	19.95	G
ATOM	16473	CA	ALA	G1103	75.753	89.236	53.127	1.00	19.95	G
ATOM	16474	CB	ALA	G1103	74.347	89.710	53.502	1.00	5.07	G
ATOM	16475	C	ALA	G1103	75.725	87.723	52.933	1.00	19.95	G
ATOM	16476	O	ALA	G1103	75.953	86.963	53.892	1.00	19.95	G
ATOM	16477	N	HIS	G1104	75.411	87.308	51.697	1.00	33.27	G
ATOM	16478	CA	HIS	G1104	75.359	85.902	51.293	1.00	33.27	G
ATOM	16479	CB	HIS	G1104	76.207	85.700	50.035	1.00	99.06	G
ATOM	16480	CG	HIS	G1104	76.412	84.263	49.668	1.00	99.06	G
ATOM	16481	CD2	HIS	G1104	76.629	83.665	48.475	1.00	99.06	G
ATOM	16482	ND1	HIS	G1104	76.390	83.246	50.605	1.00	99.06	G
ATOM	16483	CE1	HIS	G1104	76.577	82.088	50.001	1.00	99.06	G
ATOM	16484	NE2	HIS	G1104	76.726	82.310	48.706	1.00	99.06	G
ATOM	16485	C	HIS	G1104	75.913	84.995	52.389	1.00	33.27	G
ATOM	16486	O	HIS	G1104	75.187	84.238	53.032	1.00	33.27	G
ATOM	16487	N	GLU	G1105	77.227	85.120	52.572	1.00	33.95	G
ATOM	16488	CA	GLU	G1105	78.044	84.359	53.511	1.00	33.95	G
ATOM	16489	CB	GLU	G1105	79.492	84.738	53.298	1.00	61.18	G
ATOM	16490	CG	GLU	G1105	79.756	86.201	53.453	1.00	61.18	G
ATOM	16491	CD	GLU	G1105	80.925	86.639	52.608	1.00	61.18	G
ATOM	16492	OE1	GLU	G1105	81.857	85.824	52.433	1.00	61.18	G
ATOM	16493	OE2	GLU	G1105	80.919	87.792	52.119	1.00	61.18	G
ATOM	16494	C	GLU	G1105	77.765	84.389	55.000	1.00	33.95	G
ATOM	16495	O	GLU	G1105	77.658	83.333	55.609	1.00	33.95	G
ATOM	16496	N	ILE	G1106	77.675	85.576	55.599	1.00	37.01	G
ATOM	16497	CA	ILE	G1106	77.442	85.675	57.045	1.00	37.01	G
ATOM	16498	CB	ILE	G1106	76.808	87.012	57.458	1.00	9.16	G
ATOM	16499	CG2	ILE	G1106	76.363	86.939	58.890	1.00	9.16	G
ATOM	16500	CG1	ILE	G1106	77.794	88.155	57.262	1.00	9.16	G
ATOM	16501	CD	ILE	G1106	78.118	88.385	55.822	1.00	9.16	G
ATOM	16502	C	ILE	G1106	76.531	84.581	57.550	1.00	37.01	G
ATOM	16503	O	ILE	G1106	75.422	84.428	57.055	1.00	37.01	G
ATOM	16504	N	VAL	G1107	76.998	83.832	58.544	1.00	34.39	G
ATOM	16505	CA	VAL	G1107	76.225	82.734	59.120	1.00	34.39	G
ATOM	16506	CB	VAL	G1107	76.448	81.418	58.322	1.00	10.86	G
ATOM	16507	CG1	VAL	G1107	75.886	80.234	59.079	1.00	10.86	G
ATOM	16508	CG2	VAL	G1107	75.808	81.511	56.951	1.00	10.86	G
ATOM	16509	C	VAL	G1107	76.630	82.481	60.571	1.00	34.39	G
ATOM	16510	O	VAL	G1107	77.575	83.078	61.088	1.00	34.39	G

ATOM	16511	N	VAL	G1108	75.883	81.616	61.241	1.00	74.13	G
ATOM	16512	CA	VAL	G1108	76.202	81.253	62.603	1.00	74.13	G
ATOM	16513	CB	VAL	G1108	74.998	80.588	63.307	1.00	94.80	G
ATOM	16514	CG1	VAL	G1108	75.430	80.009	64.642	1.00	94.80	G
ATOM	16515	CG2	VAL	G1108	73.877	81.607	63.503	1.00	94.80	G
ATOM	16516	C	VAL	G1108	77.326	80.243	62.446	1.00	74.13	G
ATOM	16517	O	VAL	G1108	77.209	79.280	61.686	1.00	74.13	G
ATOM	16518	N	ALA	G1109	78.428	80.484	63.139	1.00	80.78	G
ATOM	16519	CA	ALA	G1109	79.571	79.588	63.079	1.00	80.78	G
ATOM	16520	CB	ALA	G1109	80.559	80.078	62.031	1.00	100.07	G
ATOM	16521	C	ALA	G1109	80.225	79.542	64.458	1.00	80.78	G
ATOM	16522	O	ALA	G1109	80.878	80.505	64.880	1.00	80.78	G
ATOM	16523	N	ALA	G1110	80.036	78.421	65.154	1.00	75.91	G
ATOM	16524	CA	ALA	G1110	80.580	78.219	66.497	1.00	75.91	G
ATOM	16525	CB	ALA	G1110	81.997	78.799	66.604	1.00	100.07	G
ATOM	16526	C	ALA	G1110	79.674	78.871	67.530	1.00	75.91	G
ATOM	16527	O	ALA	G1110	78.789	79.653	67.189	1.00	75.91	G
ATOM	16528	N	ALA	G1111	79.891	78.543	68.797	1.00	100.07	G
ATOM	16529	CA	ALA	G1111	79.082	79.118	69.857	1.00	100.07	G
ATOM	16530	CB	ALA	G1111	79.348	78.405	71.165	1.00	58.97	G
ATOM	16531	C	ALA	G1111	79.401	80.600	69.989	1.00	100.07	G
ATOM	16532	O	ALA	G1111	79.284	81.357	69.025	1.00	100.07	G
ATOM	16533	N	ALA	G1112	79.808	81.014	71.183	1.00	100.07	G
ATOM	16534	CA	ALA	G1112	80.125	82.415	71.429	1.00	100.07	G
ATOM	16535	CB	ALA	G1112	79.212	82.969	72.532	1.00	100.07	G
ATOM	16536	C	ALA	G1112	81.589	82.631	71.803	1.00	100.07	G
ATOM	16537	O	ALA	G1112	82.048	82.185	72.855	1.00	100.07	G
ATOM	16538	N	CYS	G1113	82.314	83.325	70.933	1.00	79.58	G
ATOM	16539	CA	CYS	G1113	83.720	83.617	71.169	1.00	79.58	G
ATOM	16540	CB	CYS	G1113	84.318	84.306	69.948	1.00	54.65	G
ATOM	16541	SG	CYS	G1113	83.687	85.968	69.714	1.00	54.65	G
ATOM	16542	C	CYS	G1113	83.868	84.527	72.392	1.00	79.58	G
ATOM	16543	O	CYS	G1113	83.153	84.370	73.387	1.00	79.58	G
ATOM	16544	N	ALA	G1114	84.786	85.487	72.305	1.00	85.23	G
ATOM	16545	CA	ALA	G1114	85.042	86.414	73.404	1.00	85.23	G
ATOM	16546	CB	ALA	G1114	86.548	86.629	73.563	1.00	77.65	G
ATOM	16547	C	ALA	G1114	84.341	87.762	73.266	1.00	85.23	G
ATOM	16548	O	ALA	G1114	84.315	88.365	72.188	1.00	85.23	G
ATOM	16549	N	ALA	G1115	83.777	88.224	74.380	1.00	93.16	G
ATOM	16550	CA	ALA	G1115	83.086	89.504	74.429	1.00	93.16	G
ATOM	16551	CB	ALA	G1115	82.504	89.738	75.814	1.00	100.07	G
ATOM	16552	C	ALA	G1115	84.094	90.586	74.107	1.00	93	

ATOM	16595	C	PRO	G1122	68.565	103.386	74.275	1.00	43.02	G
ATOM	16596	O	PRO	G1122	67.815	102.888	73.439	1.00	43.02	G
ATOM	16597	N	LEU	G1123	68.177	103.736	75.492	1.00	52.94	G
ATOM	16598	CA	LEU	G1123	66.813	103.550	75.943	1.00	52.94	G
ATOM	16599	CB	LEU	G1123	66.805	103.003	77.360	1.00	81.45	G
ATOM	16600	CG	LEU	G1123	65.866	101.820	77.516	1.00	81.45	G
ATOM	16601	CD1	LEU	G1123	66.243	100.763	76.500	1.00	81.45	G
ATOM	16602	CD2	LEU	G1123	65.957	101.266	78.924	1.00	81.45	G
ATOM	16603	C	LEU	G1123	66.083	104.877	75.907	1.00	52.94	G
ATOM	16604	O	LEU	G1123	64.925	104.965	76.312	1.00	52.94	G
ATOM	16605	N	PHE	G1124	66.780	105.911	75.445	1.00	31.39	G
ATOM	16606	CA	PHE	G1124	66.234	107.261	75.327	1.00	31.39	G
ATOM	16607	CB	PHE	G1124	66.658	108.175	76.491	1.00	34.97	G
ATOM	16608	CG	PHE	G1124	66.067	107.835	77.839	1.00	34.97	G
ATOM	16609	CD1	PHE	G1124	65.305	108.774	78.516	1.00	34.97	G
ATOM	16610	CD2	PHE	G1124	66.364	106.642	78.481	1.00	34.97	G
ATOM	16611	CE1	PHE	G1124	64.854	108.540	79.813	1.00	34.97	G
ATOM	16612	CE2	PHE	G1124	65.916	106.397	79.783	1.00	34.97	G
ATOM	16613	CZ	PHE	G1124	65.162	107.349	80.450	1.00	34.97	G
ATOM	16614	C	PHE	G1124	66.995	107.749	74.118	1.00	31.39	G
ATOM	16615	O	PHE	G1124	68.151	107.376	73.955	1.00	31.39	G
ATOM	16616	N	GLN	G1125	66.370	108.564	73.273	1.00	51.71	G
ATOM	16617	CA	GLN	G1125	67.057	109.131	72.113	1.00	51.71	G
ATOM	16618	CB	GLN	G1125	66.763	108.333	70.841	1.00	100.07	G
ATOM	16619	CG	GLN	G1125	67.457	106.961	70.849	1.00	100.07	G
ATOM	16620	CD	GLN	G1125	67.872	106.461	69.464	1.00	100.07	G
ATOM	16621	OE1	GLN	G1125	67.030	106.164	68.611	1.00	100.07	G
ATOM	16622	NE2	GLN	G1125	69.181	106.365	69.241	1.00	100.07	G
ATOM	16623	C	GLN	G1125	66.636	110.586	71.985	1.00	51.71	G
ATOM	16624	O	GLN	G1125	65.596	110.978	72.513	1.00	51.71	G
ATOM	16625	N	MET	G1126	67.441	111.392	71.299	1.00	69.05	G
ATOM	16626	CA	MET	G1126	67.138	112.817	71.198	1.00	69.05	G
ATOM	16627	CB	MET	G1126	68.420	113.637	71.401	1.00	64.82	G
ATOM	16628	CG	MET	G1126	68.161	115.065	71.863	1.00	64.82	G
ATOM	16629	SD	MET	G1126	69.607	115.912	72.471	1.00	64.82	G
ATOM	16630	CE	MET	G1126	69.514	115.592	74.183	1.00	64.82	G
ATOM	16631	C	MET	G1126	66.369	113.370	69.995	1.00	69.05	G
ATOM	16632	O	MET	G1126	65.937	112.639	69.099	1.00	69.05	G
ATOM	16633	N	ASP	G1127	66.222	114.694	70.028	1.00	63.88	G
ATOM	16634	CA	ASP	G1127	65.480	115.491	69.064	1.00	63.88	G
ATOM	16635	CB	ASP	G1127	64.310	116.128	69.820	1.00	67.63	G
ATOM	16636	CG	ASP	G1127	63.379	116.887	68.930	1.00	67.63	G
ATOM	16637	OD1	ASP	G1127	63.857	117.778	68.209	1.00	67.63	G
ATOM	16638	OD2	ASP	G1127	62.164	116.602	68.960	1.00	67.63	G
ATOM	16639	C	ASP	G1127	66.373	116.578	68.443	1.00	63.88	G
ATOM	16640	O	ASP	G1127	66.435	117.699	68.956	1.00	63.88	G
ATOM	16641	N	GLU	G1128	67.044	116.237	67.337	1.00	39.80	G
ATOM	16642	CA	GLU	G1128	67.954	117.148	66.625	1.00	39.80	G
ATOM	16643	CB	GLU	G1128	68.030	116.778	65.137	1.00	100.07	G
ATOM	16644	CG	GLU	G1128	68.983	115.627	64.801	1.00	100.07	G
ATOM	16645	CD	GLU	G1128	69.123	115.382	63.296	1.00	100.07	G
ATOM	16646	OE1	GLU	G1128	68.162	114.877	62.675	1.00	100.07	G
ATOM	16647	OE2	GLU	G1128	70.195	115.700	62.731	1.00	100.07	G
ATOM	16648	C	GLU	G1128	67.516	118.593	66.754	1.00	39.80	G
ATOM	16649	O	GLU	G1128	68.311	119.480	67.055	1.00	39.80	G
ATOM	16650	N	VAL	G1129	66.223	118.791	66.529	1.00	21.61	G
ATOM	16651	CA	VAL	G1129	65.545	120.086	66.572	1.00	21.61	G
ATOM	16652	CB	VAL	G1129	64.079	119.931	66.094	1.00	100.07	G
ATOM	16653	CG1	VAL	G1129	63.352	121.273	66.167	1.00	100.07	G
ATOM	16654	CG2	VAL	G1129	64.050	119.352	64.679	1.00	100.07	G
ATOM	16655	C	VAL	G1129	65.505	120.796	67.919	1.00	21.61	G
ATOM	16656	O	VAL	G1129	66.322	121.657	68.196	1.00	21.61	G
ATOM	16657	N	THR	G1130	64.528	120.436	68.738	1.00	22.57	G
ATOM	16658	CA	THR	G1130	64.345	121.059	70.035	1.00	22.57	G
ATOM	16659	CB	THR	G1130	62.871	120.994	70.437	1.00	100.07	G
ATOM	16660	OG1	THR	G1130	62.417	119.637	70.352	1.00	100.07	G
ATOM	16661	CG2	THR	G1130	62.036	121.860	69.510	1.00	100.07	G
ATOM	16662	C	THR	G1130	65.201	120.495	71.176	1.00	22.57	G
ATOM	16663	O	THR	G1130	64.840	120.616	72.349	1.00	22.57	G
ATOM	16664	N	ARG	G1131	66.336	119.893	70.829	1.00	39.84	G
ATOM	16665	CA	ARG	G1131	67.255	119.330	71.818	1.00	39.84	G
ATOM	16666	CB	ARG	G1131	68.319	120.350	72.175	1.00	61.97	G
ATOM	16667	CG	ARG	G1131	69.260	120.667	71.053	1.00	61.97	G
ATOM	16668	CD	ARG	G1131	69.558	122.135	71.079	1.00	61.97	G
ATOM	16669	NE	ARG	G1131	70.770	122.468	70.350	1.00	61.97	G
ATOM	16670	CZ	ARG	G1131	71.282	123.692	70.319	1.00	61.97	G
ATOM	16671	NH1	ARG	G1131	70.670	124.672	70.970	1.00	61.97	G
ATOM	16672	NH2	ARG	G1131	72.410	123.933	69.667	1.00	61.97	G
ATOM	16673	C	ARG	G1131	66.564	118.898	73.091	1.00	39.84	G
ATOM	16674	O	ARG	G1131	66.430	119.694	74.016	1.00	39.84	G
ATOM	16675	N	THR	G1132	66.127	117.641	73.133	1.00	77.69	G
ATOM	16676	CA	THR	G1132	65.455	117.084	74.306	1.00	77.69	G
ATOM	16677	CB	THR	G1132	64.019	117.612	74.428	1.00	62.99	G
ATOM	16678	OG1	THR	G1132	63.972	118.963	73.965	1.00	62.99	G

ATOM	16679	CG2	THR	G1132	63.562	117.589	75.879	1.00	62.99	G
ATOM	16680	C	THR	G1132	65.417	115.559	74.190	1.00	77.69	G
ATOM	16681	O	THR	G1132	65.805	115.001	73.165	1.00	77.69	G
ATOM	16682	N	LEU	G1133	64.943	114.883	75.231	1.00	64.19	G
ATOM	16683	CA	LEU	G1133	64.892	113.428	75.208	1.00	64.19	G
ATOM	16684	CB	LEU	G1133	65.770	112.891	76.326	1.00	56.52	G
ATOM	16685	CG	LEU	G1133	67.187	113.433	76.167	1.00	56.52	G
ATOM	16686	CD1	LEU	G1133	68.121	112.787	77.179	1.00	56.52	G
ATOM	16687	CD2	LEU	G1133	67.658	113.148	74.735	1.00	56.52	G
ATOM	16688	C	LEU	G1133	63.499	112.829	75.300	1.00	64.19	G
ATOM	16689	O	LEU	G1133	62.511	113.541	75.442	1.00	64.19	G
ATOM	16690	N	ARG	G1134	63.419	111.508	75.209	1.00	56.37	G
ATOM	16691	CA	ARG	G1134	62.131	110.831	75.282	1.00	56.37	G
ATOM	16692	CB	ARG	G1134	61.496	110.742	73.901	1.00	100.07	G
ATOM	16693	CG	ARG	G1134	61.361	112.070	73.188	1.00	100.07	G
ATOM	16694	CD	ARG	G1134	60.659	111.872	71.869	1.00	100.07	G
ATOM	16695	NE	ARG	G1134	61.392	112.486	70.773	1.00	100.07	G
ATOM	16696	CZ	ARG	G1134	61.219	112.165	69.497	1.00	100.07	G
ATOM	16697	NH1	ARG	G1134	60.334	111.230	69.162	1.00	100.07	G
ATOM	16698	NH2	ARG	G1134	61.931	112.776	68.557	1.00	100.07	G
ATOM	16699	C	ARG	G1134	62.297	109.434	75.834	1.00	56.37	G
ATOM	16700	O	ARG	G1134	63.387	108.856	75.773	1.00	56.37	G
ATOM	16701	N	LEU	G1135	61.208	108.880	76.352	1.00	56.74	G
ATOM	16702	CA	LEU	G1135	61.266	107.549	76.931	1.00	56.74	G
ATOM	16703	CB	LEU	G1135	59.902	107.127	77.451	1.00	100.07	G
ATOM	16704	CG	LEU	G1135	59.335	108.146	78.430	1.00	100.07	G
ATOM	16705	CD1	LEU	G1135	58.639	109.261	77.650	1.00	100.07	G
ATOM	16706	CD2	LEU	G1135	58.370	107.459	79.375	1.00	100.07	G
ATOM	16707	C	LEU	G1135	61.749	106.549	75.916	1.00	56.74	G
ATOM	16708	O	LEU	G1135	62.032	105.405	76.269	1.00	56.74	G
ATOM	16709	N	ARG	G1136	61.838	106.995	74.663	1.00	30.68	G
ATOM	16710	CA	ARG	G1136	62.292	106.168	73.551	1.00	30.68	G
ATOM	16711	CB	ARG	G1136	63.505	105.339	73.965	1.00	81.83	G
ATOM	16712	CG	ARG	G1136	64.701	105.467	73.055	1.00	81.83	G
ATOM	16713	CD	ARG	G1136	64.372	105.021	71.654	1.00	81.83	G
ATOM	16714	NE	ARG	G1136	65.323	104.031	71.169	1.00	81.83	G
ATOM	16715	CZ	ARG	G1136	65.356	103.594	69.919	1.00	81.83	G
ATOM	16716	NH1	ARG	G1136	64.493	104.064	69.030	1.00	81.83	G
ATOM	16717	NH2	ARG	G1136	66.246	102.682	69.561	1.00	81.83	G
ATOM	16718	C	ARG	G1136	61.165	105.251	73.121	1.00	30.68	G
ATOM	16719	O	ARG	G1136	60.949	104.200	73.706	1.00	30.68	G
ATOM	16720	N	LYS	G1137	60.447	105.669	72.088	1.00	22.80	G
ATOM	16721	CA	LYS	G1137	59.311	104.920	71.538	1.00	22.80	G
ATOM	16722	CB	LYS	G1137	59.265	105.138	70.013	1.00	99.87	G
ATOM	16723	CG	LYS	G1137	59.594	106.600	69.626	1.00	99.87	G
ATOM	16724	CD	LYS	G1137	59.069	107.043	68.256	1.00	99.87	G
ATOM	16725	CE	LYS	G1137	59.315	108.550	68.041	1.00	99.87	G
ATOM	16726	NZ	LYS	G1137	58.580	109.157	66.878	1.00	99.87	G
ATOM	16727	C	LYS	G1137	59.344	103.431	71.916	1.00	22.80	G
ATOM	16728	O	LYS	G1137	60.252	102.682	71.543	1.00	22.80	G
ATOM	16729	N	ARG	G1138	58.348	103.023	72.692	1.00	44.39	G
ATOM	16730	CA	ARG	G1138	58.238	101.649	73.181	1.00	44.39	G
ATOM	16731	CB	ARG	G1138	56.771	101.330	73.508	1.00	97.36	G
ATOM	16732	CG	ARG	G1138	56.065	102.387	74.382	1.00	97.36	G
ATOM	16733	CD	ARG	G1138	55.571	103.580	73.560	1.00	97.36	G
ATOM	16734	NE	ARG	G1138	54.929	104.606	74.380	1.00	97.36	G
ATOM	16735	CZ	ARG	G1138	54.204	105.606	73.886	1.00	97.36	G
ATOM	16736	NH1	ARG	G1138	54.029	105.706	72.574	1.00	97.36	G
ATOM	16737	NH2	ARG	G1138	53.657	106.508	74.697	1.00	97.36	G
ATOM	16738	C	ARG	G1138	58.804	100.605	72.220	1.00	44.39	G
ATOM	16739	O	ARG	G1138	59.983	100.250	72.307	1.00	44.39	G
ATOM	16740	N	SER	G1139	57.952	100.127	71.315	1.00	55.38	G
ATOM	16741	CA	SER	G1139	58.316	99.126	70.309	1.00	55.38	G
ATOM	16742	CB	SER	G1139	57.523	99.367	69.025	1.00	27.51	G
ATOM	16743	OG	SER	G1139	58.324	99.073	67.891	1.00	27.51	G
ATOM	16744	C	SER	G1139	59.800	99.052	69.957	1.00	55.38	G
ATOM	16745	O	SER	G1139	60.428	98.005	70.112	1.00	55.38	G
ATOM	16746	N	ASP	G1140	60.346	100.163	69.472	1.00	55.18	G
ATOM	16747	CA	ASP	G1140	61.748	100.222	69.082	1.00	55.18	G
ATOM	16748	CB	ASP	G1140	62.195	101.677	68.934	1.00	86.85	G
ATOM	16749	CG	ASP	G1140	61.370	102.436	67.919	1.00	86.85	G
ATOM	16750	OD1	ASP	G1140	61.202	101.929	66.790	1.00	86.85	G
ATOM	16751	OD2	ASP	G1140	60.891	103.541	68.242	1.00	86.85	G
ATOM	16752	C	ASP	G1140	62.650	99.504	70.081	1.00	55.18	G
ATOM	16753	O	ASP	G1140	63.573	98.778	69.694	1.00	55.18	G
ATOM	16754	N	ILE	G1141	62.384	99.704	71.369	1.00	46.74	G
ATOM	16755	CA	ILE	G1141	63.188	99.059	72.387	1.00	46.74	G
ATOM	16756	CB	ILE	G1141	62.717	99.387	73.783	1.00	41.94	G
ATOM	16757	CG2	ILE	G1141	63.697	98.799	74.780	1.00	41.94	G
ATOM	16758	CG1	ILE	G1141	62.568	100.898	73.944	1.00	41.94	G
ATOM	16759	CD	ILE	G1141	63.840	101.648	73.721	1.00	41.94	G
ATOM	16760	C	ILE	G1141	63.036	97.571	72.206	1.00	46.74	G
ATOM	16761	O	ILE	G1141	64.032	96.849	72.163	1.00	46.74	G
ATOM	16762	N	GLU	G1142	61.781	97.118	72.122	1.00	37.83	G

ATOM	16763	CA	GLU	G1142	61.492	95.702	71.923	1.00	37.83	G
ATOM	16764	CB	GLU	G1142	60.011	95.478	71.655	1.00	84.79	G
ATOM	16765	CG	GLU	G1142	59.179	95.563	72.902	1.00	84.79	G
ATOM	16766	CD	GLU	G1142	57.702	95.469	72.620	1.00	84.79	G
ATOM	16767	OE1	GLU	G1142	57.308	94.546	71.875	1.00	84.79	G
ATOM	16768	OE2	GLU	G1142	56.939	96.313	73.150	1.00	84.79	G
ATOM	16769	C	GLU	G1142	62.288	95.319	70.711	1.00	37.83	G
ATOM	16770	O	GLU	G1142	63.045	94.348	70.719	1.00	37.83	G
ATOM	16771	N	SER	G1143	62.144	96.131	69.674	1.00	32.09	G
ATOM	16772	CA	SER	G1143	62.853	95.888	68.437	1.00	32.09	G
ATOM	16773	CB	SER	G1143	62.258	96.705	67.292	1.00	33.11	G
ATOM	16774	OG	SER	G1143	62.681	96.176	66.047	1.00	33.11	G
ATOM	16775	C	SER	G1143	64.289	96.280	68.632	1.00	32.09	G
ATOM	16776	O	SER	G1143	64.974	96.588	67.674	1.00	32.09	G
ATOM	16777	N	GLY	G1144	64.742	96.281	69.875	1.00	43.72	G
ATOM	16778	CA	GLY	G1144	66.120	96.640	70.137	1.00	43.72	G
ATOM	16779	C	GLY	G1144	66.783	95.668	71.090	1.00	43.72	G
ATOM	16780	O	GLY	G1144	67.979	95.370	70.991	1.00	43.72	G
ATOM	16781	N	LEU	G1145	65.994	95.153	72.016	1.00	49.01	G
ATOM	16782	CA	LEU	G1145	66.532	94.239	72.987	1.00	49.01	G
ATOM	16783	CB	LEU	G1145	66.350	94.832	74.388	1.00	15.13	G
ATOM	16784	CG	LEU	G1145	66.730	96.310	74.565	1.00	15.13	G
ATOM	16785	CD1	LEU	G1145	66.907	96.601	76.053	1.00	15.13	G
ATOM	16786	CD2	LEU	G1145	68.017	96.627	73.831	1.00	15.13	G
ATOM	16787	C	LEU	G1145	65.926	92.838	72.904	1.00	49.01	G
ATOM	16788	O	LEU	G1145	66.552	91.863	73.323	1.00	49.01	G
ATOM	16789	N	TYR	G1146	64.720	92.709	72.365	1.00	32.08	G
ATOM	16790	CA	TYR	G1146	64.140	91.376	72.286	1.00	32.08	G
ATOM	16791	CB	TYR	G1146	62.919	91.340	71.371	1.00	33.82	G
ATOM	16792	CG	TYR	G1146	62.241	89.993	71.364	1.00	33.82	G
ATOM	16793	CD1	TYR	G1146	61.129	89.744	72.158	1.00	33.82	G
ATOM	16794	CE1	TYR	G1146	60.534	88.477	72.198	1.00	33.82	G
ATOM	16795	CD2	TYR	G1146	62.743	88.951	70.607	1.00	33.82	G
ATOM	16796	CE2	TYR	G1146	62.160	87.686	70.640	1.00	33.82	G
ATOM	16797	CZ	TYR	G1146	61.057	87.453	71.433	1.00	33.82	G
ATOM	16798	OH	TYR	G1146	60.472	86.207	71.442	1.00	33.82	G
ATOM	16799	C	TYR	G1146	65.194	90.463	71.711	1.00	32.08	G
ATOM	16800	O	TYR	G1146	65.957	90.849	70.844	1.00	32.08	G
ATOM	16801	N	GLY	G1147	65.260	89.249	72.204	1.00	27.57	G
ATOM	16802	CA	GLY	G1147	66.242	88.351	71.647	1.00	27.57	G
ATOM	16803	C	GLY	G1147	67.683	88.776	71.838	1.00	27.57	G
ATOM	16804	O	GLY	G1147	68.588	87.944	71.712	1.00	27.57	G
ATOM	16805	N	ARG	G1148	67.929	90.054	72.110	1.00	42.97	G
ATOM	16806	CA	ARG	G1148	69.308	90.464	72.351	1.00	42.97	G
ATOM	16807	CB	ARG	G1148	69.391	91.866	72.936	1.00	33.74	G
ATOM	16808	CG	ARG	G1148	69.345	92.974	71.905	1.00	33.74	G
ATOM	16809	CD	ARG	G1148	70.411	92.792	70.840	1.00	33.74	G
ATOM	16810	NE	ARG	G1148	70.520	93.984	70.016	1.00	33.74	G
ATOM	16811	CZ	ARG	G1148	71.387	94.115	69.021	1.00	33.74	G
ATOM	16812	NH1	ARG	G1148	72.215	93.113	68.731	1.00	33.74	G
ATOM	16813	NH2	ARG	G1148	71.443	95.255	68.333	1.00	33.74	G
ATOM	16814	C	ARG	G1148	69.691	89.454	73.394	1.00	42.97	G
ATOM	16815	O	ARG	G1148	68.860	89.057	74.210	1.00	42.97	G
ATOM	16816	N	VAL	G1149	70.931	89.022	73.404	1.00	43.77	G
ATOM	16817	CA	VAL	G1149	71.227	87.994	74.359	1.00	43.77	G
ATOM	16818	CB	VAL	G1149	71.396	86.686	73.635	1.00	86.90	G
ATOM	16819	CG1	VAL	G1149	72.230	85.727	74.446	1.00	86.90	G
ATOM	16820	CG2	VAL	G1149	70.029	86.138	73.344	1.00	86.90	G
ATOM	16821	C	VAL	G1149	72.371	88.192	75.265	1.00	43.77	G
ATOM	16822	O	VAL	G1149	72.391	87.659	76.363	1.00	43.77	G
ATOM	16823	N	LEU	G1150	73.336	88.967	74.831	1.00	82.22	G
ATOM	16824	CA	LEU	G1150	74.471	89.149	75.686	1.00	82.22	G
ATOM	16825	CB	LEU	G1150	75.730	88.858	74.881	1.00	100.07	G
ATOM	16826	CG	LEU	G1150	75.502	87.468	74.268	1.00	100.07	G
ATOM	16827	CD1	LEU	G1150	76.664	87.058	73.425	1.00	100.07	G
ATOM	16828	CD2	LEU	G1150	75.275	86.452	75.382	1.00	100.07	G
ATOM	16829	C	LEU	G1150	74.482	90.504	76.346	1.00	82.22	G
ATOM	16830	O	LEU	G1150	74.981	91.488	75.806	1.00	82.22	G
ATOM	16831	N	ALA	G1151	73.879	90.540	77.526	1.00	48.88	G
ATOM	16832	CA	ALA	G1151	73.823	91.760	78.299	1.00	48.88	G
ATOM	16833	CB	ALA	G1151	72.754	91.621	79.419	1.00	15.58	G
ATOM	16834	C	ALA	G1151	75.238	91.849	78.875	1.00	48.88	G
ATOM	16835	O	ALA	G1151	76.195	91.355	78.264	1.00	48.88	G
ATOM	16836	N	ARG	G1152	75.373	92.496	80.027	1.00	66.05	G
ATOM	16837	CA	ARG	G1152	76.654	92.578	80.719	1.00	66.05	G
ATOM	16838	CB	ARG	G1152	77.607	93.523	80.010	1.00	81.76	G
ATOM	16839	CG	ARG	G1152	79.010	93.350	80.498	1.00	81.76	G
ATOM	16840	CD	ARG	G1152	79.987	93.874	79.505	1.00	81.76	G
ATOM	16841	NE	ARG	G1152	81.342	93.772	80.016	1.00	81.76	G
ATOM	16842	CZ	ARG	G1152	82.402	94.296	79.415	1.00	81.76	G
ATOM	16843	NH1	ARG	G1152	82.256	94.960	78.273	1.00	81.76	G
ATOM	16844	NH2	ARG	G1152	83.606	94.168	79.961	1.00	81.76	G
ATOM	16845	C	ARG	G1152	76.398	93.026	82.156	1.00	66.05	G
ATOM	16846	O	ARG	G1152	76.886	94.062	82.608	1.00	66.05	G

ATOM	16847	N	GLU	G1153	75.615	92.207	82.857	1.00	47.40	G
ATOM	16848	CA	GLU	G1153	75.210	92.434	84.237	1.00	47.40	G
ATOM	16849	CB	GLU	G1153	76.431	92.717	85.111	1.00	100.07	G
ATOM	16850	CG	GLU	G1153	76.099	92.878	86.579	1.00	100.07	G
ATOM	16851	CD	GLU	G1153	77.334	93.045	87.435	1.00	100.07	G
ATOM	16852	OE1	GLU	G1153	78.173	93.913	87.104	1.00	100.07	G
ATOM	16853	OE2	GLU	G1153	77.460	92.312	88.441	1.00	100.07	G
ATOM	16854	C	GLU	G1153	74.231	93.601	84.288	1.00	47.40	G
ATOM	16855	O	GLU	G1153	74.627	94.741	84.508	1.00	47.40	G
ATOM	16856	N	VAL	G1154	72.951	93.316	84.058	1.00	76.39	G
ATOM	16857	CA	VAL	G1154	71.943	94.365	84.086	1.00	76.39	G
ATOM	16858	CB	VAL	G1154	70.617	93.919	83.475	1.00	94.04	G
ATOM	16859	CG1	VAL	G1154	69.573	95.013	83.675	1.00	94.04	G
ATOM	16860	CG2	VAL	G1154	70.805	93.624	81.989	1.00	94.04	G
ATOM	16861	C	VAL	G1154	71.714	94.766	85.518	1.00	76.39	G
ATOM	16862	O	VAL	G1154	71.189	94.004	86.325	1.00	76.39	G
ATOM	16863	N	GLU	G1155	72.108	95.999	85.792	1.00	65.33	G
ATOM	16864	CA	GLU	G1155	72.064	96.627	87.109	1.00	65.33	G
ATOM	16865	CB	GLU	G1155	72.732	98.017	87.000	1.00	100.07	G
ATOM	16866	CG	GLU	G1155	74.201	98.018	86.523	1.00	100.07	G
ATOM	16867	CD	GLU	G1155	74.411	98.755	85.192	1.00	100.07	G
ATOM	16868	OE1	GLU	G1155	73.921	99.899	85.051	1.00	100.07	G
ATOM	16869	OE2	GLU	G1155	75.077	98.198	84.287	1.00	100.07	G
ATOM	16870	C	GLU	G1155	70.764	96.768	87.937	1.00	65.33	G
ATOM	16871	O	GLU	G1155	70.044	95.808	88.223	1.00	65.33	G
ATOM	16872	N	ALA	G1156	70.516	98.010	88.329	1.00	100.07	G
ATOM	16873	CA	ALA	G1156	69.407	98.409	89.173	1.00	100.07	G
ATOM	16874	CB	ALA	G1156	69.353	99.923	89.204	1.00	100.07	G
ATOM	16875	C	ALA	G1156	68.000	97.842	88.994	1.00	100.07	G
ATOM	16876	O	ALA	G1156	67.735	96.999	88.147	1.00	100.07	G
ATOM	16877	N	LEU	G1157	67.122	98.361	89.849	1.00	65.69	G
ATOM	16878	CA	LEU	G1157	65.705	98.028	89.996	1.00	65.69	G
ATOM	16879	CB	LEU	G1157	64.878	98.417	88.769	1.00	45.45	G
ATOM	16880	CG	LEU	G1157	63.460	98.784	89.262	1.00	45.45	G
ATOM	16881	CD1	LEU	G1157	62.627	99.370	88.153	1.00	45.45	G
ATOM	16882	CD2	LEU	G1157	62.767	97.565	89.831	1.00	45.45	G
ATOM	16883	C	LEU	G1157	65.431	96.580	90.360	1.00	65.69	G
ATOM	16884	O	LEU	G1157	65.752	95.666	89.604	1.00	65.69	G
ATOM	16885	N	GLY	G1158	64.826	96.399	91.534	1.00	49.67	G
ATOM	16886	CA	GLY	G1158	64.491	95.082	92.034	1.00	49.67	G
ATOM	16887	C	GLY	G1158	65.450	93.980	91.623	1.00	49.67	G
ATOM	16888	O	GLY	G1158	66.497	93.798	92.237	1.00	49.67	G
ATOM	16889	N	ARG	G1159	65.080	93.257	90.567	1.00	51.44	G
ATOM	16890	CA	ARG	G1159	65.840	92.127	90.016	1.00	51.44	G
ATOM	16891	CB	ARG	G1159	65.062	91.531	88.826	1.00	100.06	G
ATOM	16892	CG	ARG	G1159	65.528	90.152	88.339	1.00	100.06	G
ATOM	16893	CD	ARG	G1159	64.511	89.516	87.360	1.00	100.06	G
ATOM	16894	NE	ARG	G1159	64.552	88.047	87.390	1.00	100.06	G
ATOM	16895	CZ	ARG	G1159	63.644	87.249	86.829	1.00	100.06	G
ATOM	16896	NH1	ARG	G1159	62.609	87.767	86.178	1.00	100.06	G
ATOM	16897	NH2	ARG	G1159	63.760	85.931	86.934	1.00	100.06	G
ATOM	16898	C	ARG	G1159	67.264	92.444	89.581	1.00	51.44	G
ATOM	16899	O	ARG	G1159	67.652	93.599	89.454	1.00	51.44	G
ATOM	16900	N	ARG	G1160	68.038	91.391	89.370	1.00	47.80	G
ATOM	16901	CA	ARG	G1160	69.413	91.516	88.920	1.00	47.80	G
ATOM	16902	CB	ARG	G1160	70.370	91.077	90.018	1.00	92.45	G
ATOM	16903	CG	ARG	G1160	70.382	92.040	91.188	1.00	92.45	G
ATOM	16904	CD	ARG	G1160	70.929	93.394	90.765	1.00	92.45	G
ATOM	16905	NE	ARG	G1160	72.249	93.632	91.336	1.00	92.45	G
ATOM	16906	CZ	ARG	G1160	73.139	94.476	90.832	1.00	92.45	G
ATOM	16907	NH1	ARG	G1160	72.857	95.169	89.740	1.00	92.45	G
ATOM	16908	NH2	ARG	G1160	74.314	94.628	91.425	1.00	92.45	G
ATOM	16909	C	ARG	G1160	69.526	90.605	87.718	1.00	47.80	G
ATOM	16910	O	ARG	G1160	69.137	89.447	87.790	1.00	47.80	G
ATOM	16911	N	LEU	G1161	70.047	91.121	86.610	1.00	61.41	G
ATOM	16912	CA	LEU	G1161	70.156	90.322	85.396	1.00	61.41	G
ATOM	16913	CB	LEU	G1161	69.456	91.072	84.262	1.00	25.98	G
ATOM	16914	CG	LEU	G1161	68.131	91.766	84.658	1.00	25.98	G
ATOM	16915	CD1	LEU	G1161	67.520	92.441	83.447	1.00	25.98	G
ATOM	16916	CD2	LEU	G1161	67.135	90.760	85.234	1.00	25.98	G
ATOM	16917	C	LEU	G1161	71.612	89.994	85.036	1.00	61.41	G
ATOM	16918	O	LEU	G1161	72.358	90.861	84.571	1.00	61.41	G
ATOM	16919	N	GLU	G1162	71.994	88.734	85.263	1.00	63.09	G
ATOM	16920	CA	GLU	G1162	73.346	88.215	85.012	1.00	63.09	G
ATOM	16921	CB	GLU	G1162	73.326	86.689	85.099	1.00	100.07	G
ATOM	16922	CG	GLU	G1162	73.055	86.145	86.489	1.00	100.07	G
ATOM	16923	CD	GLU	G1162	72.207	84.878	86.477	1.00	100.07	G
ATOM	16924	OE1	GLU	G1162	72.550	83.911	85.758	1.00	100.07	G
ATOM	16925	OE2	GLU	G1162	71.190	84.851	87.203	1.00	100.07	G
ATOM	16926	C	GLU	G1162	73.974	88.622	83.679	1.00	63.09	G
ATOM	16927	O	GLU	G1162	73.356	89.316	82.880	1.00	63.09	G
ATOM	16928	N	GLU	G1163	75.207	88.180	83.445	1.00	62.55	G
ATOM	16929	CA	GLU	G1163	75.917	88.487	82.206	1.00	62.55	G
ATOM	16930	CB	GLU	G1163	77.359	87.994	82.309	1.00	99.38	G

ATOM	17015	ND1	HIS	G1173	56.483	94.118	78.056	1.00	76.01	G
ATOM	17016	CE1	HIS	G1173	56.135	94.059	76.784	1.00	76.01	G
ATOM	17017	NE2	HIS	G1173	57.182	94.376	76.048	1.00	76.01	G
ATOM	17018	C	HIS	G1173	60.456	95.661	80.645	1.00	29.78	G
ATOM	17019	O	HIS	G1173	60.603	96.836	80.976	1.00	29.78	G
ATOM	17020	N	PHE	G1174	60.809	94.652	81.431	1.00	27.56	G
ATOM	17021	CA	PHE	G1174	61.406	94.934	82.721	1.00	27.56	G
ATOM	17022	CB	PHE	G1174	62.202	93.751	83.215	1.00	26.64	G
ATOM	17023	CG	PHE	G1174	63.008	94.047	84.435	1.00	26.64	G
ATOM	17024	CD1	PHE	G1174	62.387	94.302	85.646	1.00	26.64	G
ATOM	17025	CD2	PHE	G1174	64.396	94.055	84.381	1.00	26.64	G
ATOM	17026	CE1	PHE	G1174	63.140	94.557	86.791	1.00	26.64	G
ATOM	17027	CE2	PHE	G1174	65.151	94.308	85.517	1.00	26.64	G
ATOM	17028	CZ	PHE	G1174	64.519	94.559	86.726	1.00	26.64	G
ATOM	17029	C	PHE	G1174	62.343	96.118	82.559	1.00	27.56	G
ATOM	17030	O	PHE	G1174	62.168	97.142	83.206	1.00	27.56	G
ATOM	17031	N	LEU	G1175	63.332	95.990	81.687	1.00	24.01	G
ATOM	17032	CA	LEU	G1175	64.246	97.098	81.485	1.00	24.01	G
ATOM	17033	CB	LEU	G1175	65.152	96.852	80.275	1.00	9.68	G
ATOM	17034	CG	LEU	G1175	65.990	95.571	80.233	1.00	9.68	G
ATOM	17035	CD1	LEU	G1175	67.348	95.872	79.692	1.00	9.68	G
ATOM	17036	CD2	LEU	G1175	66.153	95.011	81.596	1.00	9.68	G
ATOM	17037	C	LEU	G1175	63.439	98.385	81.293	1.00	24.01	G
ATOM	17038	O	LEU	G1175	63.660	99.365	82.013	1.00	24.01	G
ATOM	17039	N	ILE	G1176	62.495	98.371	80.346	1.00	15.29	G
ATOM	17040	CA	ILE	G1176	61.637	99.532	80.059	1.00	15.29	G
ATOM	17041	CB	ILE	G1176	60.324	99.113	79.376	1.00	55.80	G
ATOM	17042	CG2	ILE	G1176	59.366	100.304	79.324	1.00	55.80	G
ATOM	17043	CG1	ILE	G1176	60.603	98.575	77.979	1.00	55.80	G
ATOM	17044	CD	ILE	G1176	60.994	99.639	77.012	1.00	55.80	G
ATOM	17045	C	ILE	G1176	61.239	100.362	81.287	1.00	15.29	G
ATOM	17046	O	ILE	G1176	61.729	101.470	81.473	1.00	15.29	G
ATOM	17047	N	LYS	G1177	60.339	99.839	82.110	1.00	68.82	G
ATOM	17048	CA	LYS	G1177	59.896	100.568	83.293	1.00	68.82	G
ATOM	17049	CB	LYS	G1177	58.764	99.800	83.986	1.00	98.64	G
ATOM	17050	CG	LYS	G1177	57.506	99.709	83.122	1.00	98.64	G
ATOM	17051	CD	LYS	G1177	56.423	98.810	83.711	1.00	98.64	G
ATOM	17052	CE	LYS	G1177	55.287	98.607	82.706	1.00	98.64	G
ATOM	17053	NZ	LYS	G1177	54.223	97.689	83.200	1.00	98.64	G
ATOM	17054	C	LYS	G1177	61.055	100.824	84.254	1.00	68.82	G
ATOM	17055	O	LYS	G1177	61.152	101.890	84.870	1.00	68.82	G
ATOM	17056	N	ALA	G1178	61.946	99.850	84.371	1.00	35.80	G
ATOM	17057	CA	ALA	G1178	63.100	100.001	85.236	1.00	35.80	G
ATOM	17058	CB	ALA	G1178	63.830	98.683	85.362	1.00	37.16	G
ATOM	17059	C	ALA	G1178	64.005	101.038	84.601	1.00	35.80	G
ATOM	17060	O	ALA	G1178	65.221	100.990	84.750	1.00	35.80	G
ATOM	17061	N	ALA	G1179	63.403	101.962	83.866	1.00	28.53	G
ATOM	17062	CA	ALA	G1179	64.135	103.026	83.194	1.00	28.53	G
ATOM	17063	CB	ALA	G1179	64.597	102.579	81.833	1.00	5.07	G
ATOM	17064	C	ALA	G1179	63.151	104.166	83.071	1.00	28.53	G
ATOM	17065	O	ALA	G1179	63.502	105.267	82.643	1.00	28.53	G
ATOM	17066	N	GLU	G1180	61.901	103.861	83.415	1.00	40.04	G
ATOM	17067	CA	GLU	G1180	60.829	104.844	83.448	1.00	40.04	G
ATOM	17068	CB	GLU	G1180	59.479	104.203	83.148	1.00	69.59	G
ATOM	17069	CG	GLU	G1180	58.989	104.418	81.745	1.00	69.59	G
ATOM	17070	CD	GLU	G1180	57.832	103.500	81.393	1.00	69.59	G
ATOM	17071	OE1	GLU	G1180	57.982	102.269	81.563	1.00	69.59	G
ATOM	17072	OE2	GLU	G1180	56.779	104.001	80.939	1.00	69.59	G
ATOM	17073	C	GLU	G1180	60.907	105.188	84.924	1.00	40.04	G
ATOM	17074	O	GLU	G1180	60.314	106.154	85.403	1.00	40.04	G
ATOM	17075	N	ALA	G1181	61.664	104.359	85.633	1.00	55.50	G
ATOM	17076	CA	ALA	G1181	61.866	104.517	87.058	1.00	55.50	G
ATOM	17077	CB	ALA	G1181	62.027	103.149	87.706	1.00	100.07	G
ATOM	17078	C	ALA	G1181	63.103	105.372	87.314	1.00	55.50	G
ATOM	17079	O	ALA	G1181	63.156	106.141	88.270	1.00	55.50	G
ATOM	17080	N	GLY	G1182	64.103	105.232	86.456	1.00	69.70	G
ATOM	17081	CA	GLY	G1182	65.307	106.015	86.624	1.00	69.70	G
ATOM	17082	C	GLY	G1182	66.529	105.166	86.867	1.00	69.70	G
ATOM	17083	O	GLY	G1182	67.614	105.698	87.078	1.00	69.70	G
ATOM	17084	N	GLU	G1183	66.364	103.847	86.816	1.00	20.92	G
ATOM	17085	CA	GLU	G1183	67.469	102.922	87.053	1.00	20.92	G
ATOM	17086	CB	GLU	G1183	66.960	101.607	87.635	1.00	50.24	G
ATOM	17087	CG	GLU	G1183	66.914	101.580	89.145	1.00	50.24	G
ATOM	17088	CD	GLU	G1183	65.621	102.091	89.702	1.00	50.24	G
ATOM	17089	OE1	GLU	G1183	65.247	103.239	89.385	1.00	50.24	G
ATOM	17090	OE2	GLU	G1183	64.980	101.338	90.461	1.00	50.24	G
ATOM	17091	C	GLU	G1183	68.389	102.611	85.888	1.00	20.92	G
ATOM	17092	O	GLU	G1183	69.552	102.317	86.115	1.00	20.92	G
ATOM	17093	N	VAL	G1184	67.905	102.639	84.653	1.00	56.21	G
ATOM	17094	CA	VAL	G1184	68.808	102.366	83.541	1.00	56.21	G
ATOM	17095	CB	VAL	G1184	68.861	100.872	83.213	1.00	68.55	G
ATOM	17096	CG1	VAL	G1184	69.831	100.638	82.075	1.00	68.55	G
ATOM	17097	CG2	VAL	G1184	69.317	100.091	84.425	1.00	68.55	G
ATOM	17098	C	VAL	G1184	68.489	103.149	82.268	1.00	56.21	G

ATOM	17099	O	VAL	G1184	67.322	103.373	81.941	1.00	56.21	G
ATOM	17100	N	ARG	G1185	69.545	103.563	81.564	1.00	48.00	G
ATOM	17101	CA	ARG	G1185	69.423	104.345	80.332	1.00	48.00	G
ATOM	17102	CB	ARG	G1185	69.996	105.748	80.550	1.00	45.21	G
ATOM	17103	CG	ARG	G1185	68.957	106.865	80.575	1.00	45.21	G
ATOM	17104	CD	ARG	G1185	69.547	108.174	81.096	1.00	45.21	G
ATOM	17105	NE	ARG	G1185	68.556	109.242	81.161	1.00	45.21	G
ATOM	17106	CZ	ARG	G1185	68.153	109.947	80.109	1.00	45.21	G
ATOM	17107	NH1	ARG	G1185	68.664	109.697	78.911	1.00	45.21	G
ATOM	17108	NH2	ARG	G1185	67.230	110.893	80.248	1.00	45.21	G
ATOM	17109	C	ARG	G1185	70.108	103.718	79.113	1.00	48.00	G
ATOM	17110	O	ARG	G1185	69.780	104.048	77.976	1.00	48.00	G
ATOM	17111	N	GLU	G1186	71.064	102.827	79.338	1.00	50.67	G
ATOM	17112	CA	GLU	G1186	71.766	102.185	78.233	1.00	50.67	G
ATOM	17113	CB	GLU	G1186	73.130	102.832	78.019	1.00	89.37	G
ATOM	17114	CG	GLU	G1186	73.123	104.074	77.175	1.00	89.37	G
ATOM	17115	CD	GLU	G1186	74.504	104.701	77.079	1.00	89.37	G
ATOM	17116	OE1	GLU	G1186	75.486	103.962	76.838	1.00	89.37	G
ATOM	17117	OE2	GLU	G1186	74.606	105.937	77.239	1.00	89.37	G
ATOM	17118	C	GLU	G1186	71.974	100.699	78.472	1.00	50.67	G
ATOM	17119	O	GLU	G1186	72.868	100.298	79.214	1.00	50.67	G
ATOM	17120	N	VAL	G1187	71.147	99.872	77.852	1.00	38.99	G
ATOM	17121	CA	VAL	G1187	71.308	98.436	77.997	1.00	38.99	G
ATOM	17122	CB	VAL	G1187	70.029	97.708	77.659	1.00	15.33	G
ATOM	17123	CG1	VAL	G1187	70.200	96.235	77.928	1.00	15.33	G
ATOM	17124	CG2	VAL	G1187	68.883	98.309	78.448	1.00	15.33	G
ATOM	17125	C	VAL	G1187	72.388	98.009	77.010	1.00	38.99	G
ATOM	17126	O	VAL	G1187	72.384	98.415	75.850	1.00	38.99	G
ATOM	17127	N	PRO	G1188	73.334	97.190	77.463	1.00	71.13	G
ATOM	17128	CD	PRO	G1188	73.697	97.111	78.883	1.00	15.83	G
ATOM	17129	CA	PRO	G1188	74.436	96.705	76.633	1.00	71.13	G
ATOM	17130	CB	PRO	G1188	75.618	96.939	77.528	1.00	15.83	G
ATOM	17131	CG	PRO	G1188	75.057	96.451	78.826	1.00	15.83	G
ATOM	17132	C	PRO	G1188	74.363	95.242	76.181	1.00	71.13	G
ATOM	17133	O	PRO	G1188	74.762	94.337	76.918	1.00	71.13	G
ATOM	17134	N	VAL	G1189	73.870	95.027	74.963	1.00	23.32	G
ATOM	17135	CA	VAL	G1189	73.765	93.699	74.395	1.00	23.32	G
ATOM	17136	CB	VAL	G1189	72.527	93.548	73.555	1.00	81.27	G
ATOM	17137	CG1	VAL	G1189	72.410	92.112	73.107	1.00	81.27	G
ATOM	17138	CG2	VAL	G1189	71.324	93.970	74.349	1.00	81.27	G
ATOM	17139	C	VAL	G1189	74.966	93.487	73.501	1.00	23.32	G
ATOM	17140	O	VAL	G1189	75.502	94.436	72.929	1.00	23.32	G
ATOM	17141	N	ARG	G1190	75.374	92.231	73.374	1.00	45.05	G
ATOM	17142	CA	ARG	G1190	76.535	91.857	72.581	1.00	45.05	G
ATOM	17143	CB	ARG	G1190	77.498	91.102	73.496	1.00	62.67	G
ATOM	17144	CG	ARG	G1190	78.270	89.948	72.903	1.00	62.67	G
ATOM	17145	CD	ARG	G1190	78.814	89.102	74.045	1.00	62.67	G
ATOM	17146	NE	ARG	G1190	79.662	88.006	73.598	1.00	62.67	G
ATOM	17147	CZ	ARG	G1190	79.654	86.794	74.143	1.00	62.67	G
ATOM	17148	NH1	ARG	G1190	78.826	86.533	75.147	1.00	62.67	G
ATOM	17149	NH2	ARG	G1190	80.484	85.851	73.704	1.00	62.67	G
ATOM	17150	C	ARG	G1190	76.149	91.022	71.367	1.00	45.05	G
ATOM	17151	O	ARG	G1190	75.758	89.859	71.499	1.00	45.05	G
ATOM	17152	N	ALA	G1191	76.264	91.621	70.183	1.00	100.07	G
ATOM	17153	CA	ALA	G1191	75.911	90.927	68.948	1.00	100.07	G
ATOM	17154	CB	ALA	G1191	74.449	90.510	69.000	1.00	100.07	G
ATOM	17155	C	ALA	G1191	76.150	91.757	67.688	1.00	100.07	G
ATOM	17156	O	ALA	G1191	75.895	92.968	67.682	1.00	100.07	G
ATOM	17157	N	ALA	G1192	76.612	91.071	66.635	1.00	43.55	G
ATOM	17158	CA	ALA	G1192	76.896	91.644	65.318	1.00	43.55	G
ATOM	17159	CB	ALA	G1192	75.636	91.593	64.450	1.00	5.07	G
ATOM	17160	C	ALA	G1192	77.455	93.062	65.352	1.00	43.55	G
ATOM	17161	O	ALA	G1192	77.163	93.845	66.259	1.00	43.55	G
ATOM	17162	N	ALA	G1193	78.257	93.401	64.351	1.00	95.36	G
ATOM	17163	CA	ALA	G1193	78.858	94.726	64.291	1.00	95.36	G
ATOM	17164	CB	ALA	G1193	77.795	95.813	64.554	1.00	5.07	G
ATOM	17165	C	ALA	G1193	79.939	94.780	65.359	1.00	95.36	G
ATOM	17166	O	ALA	G1193	80.786	95.677	65.360	1.00	95.36	G
ATOM	17167	N	ALA	G1194	79.907	93.808	66.268	1.00	73.58	G
ATOM	17168	CA	ALA	G1194	80.887	93.763	67.337	1.00	73.58	G
ATOM	17169	CB	ALA	G1194	80.297	94.386	68.611	1.00	5.07	G
ATOM	17170	C	ALA	G1194	81.492	92.390	67.648	1.00	73.58	G
ATOM	17171	O	ALA	G1194	81.993	92.189	68.749	1.00	73.58	G
ATOM	17172	N	CYS	G1195	81.448	91.444	66.709	1.00	77.32	G
ATOM	17173	CA	CYS	G1195	82.079	90.153	66.978	1.00	77.32	G
ATOM	17174	C	CYS	G1195	82.814	89.456	65.860	1.00	77.32	G
ATOM	17175	O	CYS	G1195	82.503	89.621	64.679	1.00	77.32	G
ATOM	17176	CB	CYS	G1195	81.118	89.158	67.609	1.00	100.07	G
ATOM	17177	SG	CYS	G1195	79.662	88.543	66.715	1.00	100.07	G
ATOM	17178	N	ALA	G1196	83.799	88.661	66.273	1.00	100.07	G
ATOM	17179	CA	ALA	G1196	84.662	87.909	65.378	1.00	100.07	G
ATOM	17180	CB	ALA	G1196	85.790	87.287	66.173	1.00	56.39	G
ATOM	17181	C	ALA	G1196	83.948	86.843	64.550	1.00	100.07	G
ATOM	17182	O	ALA	G1196	82.908	87.117	63.955	1.00	100.07	G

ATOM	17183	N	ALA	G1197	84.506	85.631	64.515	1.00100.07	G
ATOM	17184	CA	ALA	G1197	83.942	84.544	63.710	1.00100.07	G
ATOM	17185	CB	ALA	G1197	82.576	84.085	64.287	1.00 5.07	G
ATOM	17186	C	ALA	G1197	83.779	85.196	62.333	1.00100.07	G
ATOM	17187	O	ALA	G1197	82.956	84.796	61.511	1.00100.07	G
ATOM	17188	N	ALA	G1198	84.620	86.205	62.114	1.00100.07	G
ATOM	17189	CA	ALA	G1198	84.643	87.043	60.918	1.00100.07	G
ATOM	17190	CB	ALA	G1198	85.793	88.041	61.028	1.00100.07	G
ATOM	17191	C	ALA	G1198	84.648	86.424	59.524	1.00100.07	G
ATOM	17192	O	ALA	G1198	84.342	87.129	58.557	1.00100.07	G
ATOM	17193	N	ALA	G1199	85.013	85.149	59.392	1.00100.05	G
ATOM	17194	CA	ALA	G1199	85.010	84.531	58.067	1.00100.05	G
ATOM	17195	CB	ALA	G1199	85.527	83.093	58.129	1.00 85.87	G
ATOM	17196	C	ALA	G1199	83.555	84.562	57.647	1.00100.05	G
ATOM	17197	O	ALA	G1199	82.846	83.557	57.685	1.00100.05	G
ATOM	17198	N	ALA	G1200	83.109	85.753	57.280	1.00 99.72	G
ATOM	17199	CA	ALA	G1200	81.739	85.959	56.876	1.00 99.72	G
ATOM	17200	CB	ALA	G1200	81.369	84.957	55.805	1.00100.07	G
ATOM	17201	C	ALA	G1200	80.784	85.820	58.055	1.00 99.72	G
ATOM	17202	O	ALA	G1200	79.763	86.503	58.117	1.00 99.72	G
ATOM	17203	N	ALA	G1201	81.127	84.970	59.014	1.00 94.81	G
ATOM	17204	CA	ALA	G1201	80.228	84.721	60.135	1.00 94.81	G
ATOM	17205	CB	ALA	G1201	80.185	83.207	60.376	1.00100.07	G
ATOM	17206	C	ALA	G1201	80.401	85.447	61.478	1.00 94.81	G
ATOM	17207	O	ALA	G1201	81.044	86.490	61.592	1.00 94.81	G
ATOM	17208	N	CYS	G1202	79.752	84.840	62.467	1.00 43.61	G
ATOM	17209	CA	CYS	G1202	79.690	85.173	63.896	1.00 43.61	G
ATOM	17210	C	CYS	G1202	78.257	85.077	64.386	1.00 43.61	G
ATOM	17211	O	CYS	G1202	77.336	85.679	63.811	1.00 43.61	G
ATOM	17212	CB	CYS	G1202	80.265	86.549	64.310	1.00 98.43	G
ATOM	17213	SG	CYS	G1202	80.095	86.631	66.147	1.00 98.43	G
ATOM	17214	N	ALA	G1203	78.100	84.307	65.464	1.00 74.39	G
ATOM	17215	CA	ALA	G1203	76.806	84.073	66.074	1.00 74.39	G
ATOM	17216	CB	ALA	G1203	76.015	83.139	65.207	1.00100.07	G
ATOM	17217	C	ALA	G1203	76.842	83.533	67.500	1.00 74.39	G
ATOM	17218	O	ALA	G1203	77.865	83.626	68.192	1.00 74.39	G
ATOM	17219	N	ALA	G1204	75.702	82.960	67.904	1.00 74.28	G
ATOM	17220	CA	ALA	G1204	75.476	82.407	69.242	1.00 74.28	G
ATOM	17221	CB	ALA	G1204	76.571	81.440	69.612	1.00100.07	G
ATOM	17222	C	ALA	G1204	75.446	83.581	70.213	1.00 74.28	G
ATOM	17223	O	ALA	G1204	75.119	83.452	71.386	1.00 74.28	G
ATOM	17224	N	CYS	G1205	75.806	84.735	69.680	1.00 32.55	G
ATOM	17225	CA	CYS	G1205	75.829	85.996	70.391	1.00 32.55	G
ATOM	17226	CB	CYS	G1205	77.289	86.494	70.583	1.00	

ATOM	17267	CA	MET	G1212	61.694	80.455	67.709	1.00	44.94	G
ATOM	17268	CB	MET	G1212	62.605	79.207	67.571	1.00	49.59	G
ATOM	17269	CG	MET	G1212	62.768	78.667	66.107	1.00	49.59	G
ATOM	17270	SD	MET	G1212	63.348	76.920	65.840	1.00	49.59	G
ATOM	17271	CE	MET	G1212	65.118	77.050	65.956	1.00	49.59	G
ATOM	17272	C	MET	G1212	61.868	81.154	69.071	1.00	44.94	G
ATOM	17273	O	MET	G1212	61.413	82.286	69.270	1.00	44.94	G
ATOM	17274	N	ALA	G1213	62.518	80.501	70.018	1.00	18.63	G
ATOM	17275	CA	ALA	G1213	62.704	81.123	71.319	1.00	18.63	G
ATOM	17276	CB	ALA	G1213	62.159	80.215	72.419	1.00	100.07	G
ATOM	17277	C	ALA	G1213	64.175	81.410	71.561	1.00	18.63	G
ATOM	17278	O	ALA	G1213	64.952	80.516	71.905	1.00	18.63	G
ATOM	17279	N	ARG	G1214	64.532	82.676	71.387	1.00	100.07	G
ATOM	17280	CA	ARG	G1214	65.886	83.174	71.571	1.00	100.07	G
ATOM	17281	CB	ARG	G1214	65.874	84.245	72.689	1.00	96.83	G
ATOM	17282	CG	ARG	G1214	64.918	83.980	73.836	1.00	96.83	G
ATOM	17283	CD	ARG	G1214	65.669	83.616	75.107	1.00	96.83	G
ATOM	17284	NE	ARG	G1214	64.794	83.045	76.135	1.00	96.83	G
ATOM	17285	CZ	ARG	G1214	65.209	82.606	77.326	1.00	96.83	G
ATOM	17286	NH1	ARG	G1214	66.493	82.670	77.657	1.00	96.83	G
ATOM	17287	NH2	ARG	G1214	64.340	82.095	78.193	1.00	96.83	G
ATOM	17288	C	ARG	G1214	67.050	82.177	71.779	1.00	100.07	G
ATOM	17289	O	ARG	G1214	67.524	81.989	72.895	1.00	100.07	G
ATOM	17290	N	PRO	G1215	67.487	81.485	70.711	1.00	95.14	G
ATOM	17291	CD	PRO	G1215	66.496	80.743	69.922	1.00	39.96	G
ATOM	17292	CA	PRO	G1215	68.597	80.571	70.969	1.00	95.14	G
ATOM	17293	CB	PRO	G1215	67.873	79.368	71.490	1.00	39.96	G
ATOM	17294	CG	PRO	G1215	66.709	79.289	70.452	1.00	39.96	G
ATOM	17295	C	PRO	G1215	69.412	80.224	69.702	1.00	95.14	G
ATOM	17296	O	PRO	G1215	70.292	79.373	69.759	1.00	95.14	G
ATOM	17297	N	VAL	G1216	69.106	80.867	68.571	1.00	37.25	G
ATOM	17298	CA	VAL	G1216	69.788	80.637	67.280	1.00	37.25	G
ATOM	17299	CB	VAL	G1216	70.776	81.754	66.959	1.00	17.32	G
ATOM	17300	CG1	VAL	G1216	71.369	81.542	65.578	1.00	17.32	G
ATOM	17301	CG2	VAL	G1216	70.090	83.084	67.070	1.00	17.32	G
ATOM	17302	C	VAL	G1216	70.570	79.336	67.125	1.00	37.25	G
ATOM	17303	O	VAL	G1216	71.705	79.236	67.583	1.00	37.25	G
ATOM	17304	N	SER	G1217	69.979	78.352	66.457	1.00	18.54	G
ATOM	17305	CA	SER	G1217	70.653	77.080	66.250	1.00	18.54	G
ATOM	17306	CB	SER	G1217	69.674	76.083	65.644	1.00	69.81	G
ATOM	17307	OG	SER	G1217	68.445	76.108	66.354	1.00	69.81	G
ATOM	17308	C	SER	G1217	71.772	77.398	65.282	1.00		

ATOM	17351	CG2	VAL	G1224	68.410	83.096	57.431	1.00	38.19	G
ATOM	17352	C	VAL	G1224	67.262	86.516	57.318	1.00	15.36	G
ATOM	17353	O	VAL	G1224	66.484	86.890	58.180	1.00	15.36	G
ATOM	17354	N	VAL	G1225	68.247	87.264	56.840	1.00	34.12	G
ATOM	17355	CA	VAL	G1225	68.457	88.632	57.278	1.00	34.12	G
ATOM	17356	CB	VAL	G1225	69.909	88.853	57.643	1.00	100.07	G
ATOM	17357	CG1	VAL	G1225	70.062	90.207	58.312	1.00	100.07	G
ATOM	17358	CG2	VAL	G1225	70.385	87.720	58.544	1.00	100.07	G
ATOM	17359	C	VAL	G1225	68.073	89.602	56.170	1.00	34.12	G
ATOM	17360	O	VAL	G1225	67.147	90.392	56.319	1.00	34.12	G
ATOM	17361	N	ALA	G1226	68.788	89.533	55.056	1.00	21.86	G
ATOM	17362	CA	ALA	G1226	68.513	90.393	53.898	1.00	21.86	G
ATOM	17363	CB	ALA	G1226	69.207	89.839	52.647	1.00	51.53	G
ATOM	17364	C	ALA	G1226	67.014	90.438	53.673	1.00	21.86	G
ATOM	17365	O	ALA	G1226	66.357	91.439	53.983	1.00	21.86	G
ATOM	17366	N	ALA	G1227	66.492	89.337	53.128	1.00	6.73	G
ATOM	17367	CA	ALA	G1227	65.069	89.200	52.879	1.00	6.73	G
ATOM	17368	CB	ALA	G1227	64.699	87.706	52.757	1.00	15.36	G
ATOM	17369	C	ALA	G1227	64.278	89.870	54.018	1.00	6.73	G
ATOM	17370	O	ALA	G1227	63.359	90.644	53.741	1.00	6.73	G
ATOM	17371	N	GLU	G1228	64.646	89.602	55.284	1.00	7.96	G
ATOM	17372	CA	GLU	G1228	63.941	90.199	56.425	1.00	7.96	G
ATOM	17373	CB	GLU	G1228	64.671	89.933	57.752	1.00	76.95	G
ATOM	17374	CG	GLU	G1228	64.113	88.725	58.509	1.00	76.95	G
ATOM	17375	CD	GLU	G1228	64.152	88.859	60.043	1.00	76.95	G
ATOM	17376	OE1	GLU	G1228	63.736	89.910	60.578	1.00	76.95	G
ATOM	17377	OE2	GLU	G1228	64.581	87.900	60.729	1.00	76.95	G
ATOM	17378	C	GLU	G1228	63.805	91.694	56.192	1.00	7.96	G
ATOM	17379	O	GLU	G1228	62.724	92.273	56.268	1.00	7.96	G
ATOM	17380	N	SER	G1229	64.912	92.314	55.854	1.00	13.86	G
ATOM	17381	CA	SER	G1229	64.916	93.732	55.605	1.00	13.86	G
ATOM	17382	CB	SER	G1229	66.375	94.206	55.562	1.00	32.16	G
ATOM	17383	OG	SER	G1229	66.474	95.612	55.640	1.00	32.16	G
ATOM	17384	C	SER	G1229	64.181	94.090	54.299	1.00	13.86	G
ATOM	17385	O	SER	G1229	64.258	95.223	53.846	1.00	13.86	G
ATOM	17386	N	ILE	G1230	63.470	93.147	53.685	1.00	35.41	G
ATOM	17387	CA	ILE	G1230	62.774	93.469	52.428	1.00	35.41	G
ATOM	17388	CB	ILE	G1230	63.600	93.054	51.185	1.00	100.07	G
ATOM	17389	CG2	ILE	G1230	62.867	93.448	49.900	1.00	100.07	G
ATOM	17390	CG1	ILE	G1230	64.957	93.758	51.190	1.00	100.07	G
ATOM	17391	CD	ILE	G1230	65.988	93.158	52.121	1.00	100.07	G
ATOM	17392	C	ILE	G1230	61.366	92.900	52.243	1.00	35.41	G
ATOM	17393	O	ILE	G1230	60.671	93.252	51.288	1.00	35.41	G
ATOM	17394	N	GLY	G1231	60.941	92.013	53.133	1.00	97.53	G
ATOM	17395	CA	GLY	G1231	59.596	91.481	53.013	1.00	97.53	G
ATOM	17396	C	GLY	G1231	58.707	92.624	53.440	1.00	97.53	G
ATOM	17397	O	GLY	G1231	57.552	92.439	53.812	1.00	97.53	G
ATOM	17398	N	GLU	G1232	59.286	93.821	53.377	1.00	99.15	G
ATOM	17399	CA	GLU	G1232	58.629	95.052	53.770	1.00	99.15	G
ATOM	17400	CB	GLU	G1232	59.482	95.765	54.815	1.00	100.07	G
ATOM	17401	CG	GLU	G1232	60.367	94.816	55.604	1.00	100.07	G
ATOM	17402	CD	GLU	G1232	59.580	93.732	56.335	1.00	100.07	G
ATOM	17403	OE1	GLU	G1232	58.825	94.071	57.272	1.00	100.07	G
ATOM	17404	OE2	GLU	G1232	59.716	92.540	55.977	1.00	100.07	G
ATOM	17405	C	GLU	G1232	58.371	95.983	52.589	1.00	99.15	G
ATOM	17406	O	GLU	G1232	57.226	96.159	52.192	1.00	99.15	G
ATOM	17407	N	PRO	G1233	59.431	96.572	51.996	1.00	26.64	G
ATOM	17408	CD	PRO	G1233	60.812	96.082	52.065	1.00	66.81	G
ATOM	17409	CA	PRO	G1233	59.291	97.494	50.853	1.00	26.64	G
ATOM	17410	CB	PRO	G1233	60.517	97.184	49.985	1.00	66.81	G
ATOM	17411	CG	PRO	G1233	61.128	95.942	50.615	1.00	66.81	G
ATOM	17412	C	PRO	G1233	57.980	97.437	50.061	1.00	26.64	G
ATOM	17413	O	PRO	G1233	57.178	98.380	50.128	1.00	26.64	G
ATOM	17414	N	GLY	G1234	57.760	96.345	49.323	1.00	55.33	G
ATOM	17415	CA	GLY	G1234	56.533	96.211	48.552	1.00	55.33	G
ATOM	17416	C	GLY	G1234	55.376	96.838	49.308	1.00	55.33	G
ATOM	17417	O	GLY	G1234	54.522	97.516	48.734	1.00	55.33	G
ATOM	17418	N	THR	G1235	55.383	96.616	50.618	1.00	100.07	G
ATOM	17419	CA	THR	G1235	54.375	97.136	51.537	1.00	100.07	G
ATOM	17420	CB	THR	G1235	54.246	96.218	52.789	1.00	100.06	G
ATOM	17421	OG1	THR	G1235	53.285	95.185	52.525	1.00	100.06	G
ATOM	17422	CG2	THR	G1235	53.837	97.023	54.035	1.00	100.06	G
ATOM	17423	C	THR	G1235	54.677	98.559	52.013	1.00	100.07	G
ATOM	17424	O	THR	G1235	53.766	99.289	52.418	1.00	100.07	G
ATOM	17425	N	GLN	G1236	55.945	98.955	51.975	1.00	41.97	G
ATOM	17426	CA	GLN	G1236	56.308	100.293	52.429	1.00	41.97	G
ATOM	17427	CB	GLN	G1236	56.933	100.234	53.839	1.00	100.07	G
ATOM	17428	CG	GLN	G1236	58.011	99.165	54.049	1.00	100.07	G
ATOM	17429	CD	GLN	G1236	58.036	98.615	55.484	1.00	100.07	G
ATOM	17430	OE1	GLN	G1236	57.008	98.169	56.007	1.00	100.07	G
ATOM	17431	NE2	GLN	G1236	59.214	98.633	56.113	1.00	100.07	G
ATOM	17432	C	GLN	G1236	57.208	101.058	51.480	1.00	41.97	G
ATOM	17433	O	GLN	G1236	57.212	100.811	50.278	1.00	41.97	G
ATOM	17434	N	LEU	G1237	57.964	101.997	52.031	1.00	17.85	G

ATOM	17435	CA	LEU	G1237	58.849	102.822	51.226	1.00	17.85	G
ATOM	17436	CB	LEU	G1237	59.867	101.930	50.529	1.00	99.96	G
ATOM	17437	CG	LEU	G1237	60.299	100.787	51.460	1.00	99.96	G
ATOM	17438	CD1	LEU	G1237	61.594	100.212	50.958	1.00	99.96	G
ATOM	17439	CD2	LEU	G1237	60.472	101.275	52.893	1.00	99.96	G
ATOM	17440	C	LEU	G1237	57.934	103.546	50.244	1.00	17.85	G
ATOM	17441	O	LEU	G1237	56.821	103.916	50.622	1.00	17.85	G
ATOM	17442	N	THR	G1238	58.369	103.761	49.006	1.00	64.90	G
ATOM	17443	CA	THR	G1238	57.507	104.442	48.039	1.00	64.90	G
ATOM	17444	CB	THR	G1238	57.055	105.837	48.546	1.00	81.69	G
ATOM	17445	OG1	THR	G1238	56.173	106.437	47.589	1.00	81.69	G
ATOM	17446	CG2	THR	G1238	58.250	106.745	48.735	1.00	81.69	G
ATOM	17447	C	THR	G1238	58.154	104.648	46.687	1.00	64.90	G
ATOM	17448	O	THR	G1238	57.511	105.143	45.764	1.00	64.90	G
ATOM	17449	N	MET	G1239	59.423	104.271	46.572	1.00	46.39	G
ATOM	17450	CA	MET	G1239	60.174	104.442	45.331	1.00	46.39	G
ATOM	17451	CB	MET	G1239	60.000	103.224	44.431	1.00	94.23	G
ATOM	17452	CG	MET	G1239	61.314	102.590	44.056	1.00	94.23	G
ATOM	17453	SD	MET	G1239	62.513	103.849	43.594	1.00	94.23	G
ATOM	17454	CE	MET	G1239	64.055	102.871	43.654	1.00	94.23	G
ATOM	17455	C	MET	G1239	59.759	105.712	44.581	1.00	46.39	G
ATOM	17456	O	MET	G1239	59.935	105.819	43.363	1.00	46.39	G
ATOM	17457	N	ALA	G1240	59.226	106.670	45.340	1.00	100.07	G
ATOM	17458	CA	ALA	G1240	58.749	107.950	44.827	1.00	100.07	G
ATOM	17459	CB	ALA	G1240	57.806	108.591	45.839	1.00	51.43	G
ATOM	17460	C	ALA	G1240	59.900	108.896	44.516	1.00	100.07	G
ATOM	17461	O	ALA	G1240	61.044	108.634	44.891	1.00	100.07	G
ATOM	17462	N	ALA	G1241	59.581	110.003	43.847	1.00	100.07	G
ATOM	17463	CA	ALA	G1241	60.572	111.004	43.444	1.00	100.07	G
ATOM	17464	CB	ALA	G1241	60.096	111.710	42.164	1.00	84.37	G
ATOM	17465	C	ALA	G1241	60.905	112.044	44.518	1.00	100.07	G
ATOM	17466	O	ALA	G1241	61.393	111.708	45.600	1.00	100.07	G
ATOM	17467	N	ALA	G1242	60.656	113.310	44.193	1.00	100.07	G
ATOM	17468	CA	ALA	G1242	60.913	114.422	45.106	1.00	100.07	G
ATOM	17469	CB	ALA	G1242	62.200	115.149	44.698	1.00	100.07	G
ATOM	17470	C	ALA	G1242	59.732	115.403	45.120	1.00	100.07	G
ATOM	17471	O	ALA	G1242	59.062	115.600	44.103	1.00	100.07	G
ATOM	17472	N	ALA	G1243	59.483	116.010	46.278	0.00	58.09	G
ATOM	17473	CA	ALA	G1243	58.386	116.964	46.421	0.00	58.09	G
ATOM	17474	CB	ALA	G1243	57.051	116.249	46.249	0.00	58.09	G
ATOM	17475	C	ALA	G1243	58.424	117.676	47.771	0.00	58.09	G
ATOM	17476	O	ALA	G1243	58.994	117.169	48.737	0.00	58.09	G
ATOM	17477	N	ALA	G1244	57.809	118.853	47.828	0.00	58.09	G
ATOM	17478	CA	ALA	G1244	57.763	119.644	49.053	0.00	58.09	G
ATOM	17479	CB	ALA	G1244	59.136	120.238	49.343	0.00	58.09	G
ATOM	17480	C	ALA	G1244	56.725	120.757	48.934	0.00	58.09	G
ATOM	17481	O	ALA	G1244	56.089	120.915	47.892	0.00	58.09	G
ATOM	17482	N	ALA	G1245	56.558	121.526	50.006	0.00	58.09	G
ATOM	17483	CA	ALA	G1245	55.596	122.622	50.020	0.00	58.09	G
ATOM	17484	CB	ALA	G1245	54.442	122.289	50.959	0.00	58.09	G
ATOM	17485	C	ALA	G1245	56.257	123.930	50.444	0.00	58.09	G
ATOM	17486	O	ALA	G1245	57.454	124.128	50.237	0.00	58.09	G
ATOM	17487	N	ALA	G1246	55.469	124.822	51.038	0.00	58.09	G
ATOM	17488	CA	ALA	G1246	55.974	126.112	51.492	0.00	58.09	G
ATOM	17489	CB	ALA	G1246	55.280	127.238	50.736	0.00	58.09	G
ATOM	17490	C	ALA	G1246	55.760	126.280	52.993	0.00	58.09	G
ATOM	17491	O	ALA	G1246	54.899	125.625	53.582	0.00	58.09	G
ATOM	17492	N	ALA	G1247	56.548	127.161	53.602	0.00	58.09	G
ATOM	17493	CA	ALA	G1247	56.458	127.428	55.034	0.00	58.09	G
ATOM	17494	CB	ALA	G1247	55.059	127.922	55.388	0.00	58.09	G
ATOM	17495	C	ALA	G1247	56.800	126.188	55.854	0.00	58.09	G
ATOM	17496	O	ALA	G1247	56.069	125.198	55.833	0.00	58.09	G
ATOM	17497	N	ALA	G1248	57.914	126.254	56.577	0.00	58.09	G
ATOM	17498	CA	ALA	G1248	58.362	125.141	57.407	0.00	58.09	G
ATOM	17499	CB	ALA	G1248	57.382	124.918	58.555	0.00	58.09	G
ATOM	17500	C	ALA	G1248	58.501	123.868	56.579	0.00	58.09	G
ATOM	17501	O	ALA	G1248	57.582	123.049	56.523	0.00	58.09	G
ATOM	17502	N	ALA	G1249	59.654	123.707	55.938	0.00	58.09	G
ATOM	17503	CA	ALA	G1249	59.916	122.535	55.110	0.00	58.09	G
ATOM	17504	CB	ALA	G1249	59.988	122.942	53.643	0.00	58.09	G
ATOM	17505	C	ALA	G1249	61.213	121.847	55.527	0.00	58.09	G
ATOM	17506	O	ALA	G1249	61.757	122.124	56.596	0.00	58.09	G
ATOM	17507	N	GLY	G1250	61.701	120.948	54.677	1.00	100.07	G
ATOM	17508	CA	GLY	G1250	62.928	120.232	54.976	1.00	100.07	G
ATOM	17509	C	GLY	G1250	63.488	119.435	53.807	1.00	100.07	G
ATOM	17510	O	GLY	G1250	63.011	119.534	52.672	1.00	100.07	G
ATOM	17511	N	THR	G1251	64.511	118.637	54.091	1.00	100.07	G
ATOM	17512	CA	THR	G1251	65.156	117.815	53.073	1.00	100.07	G
ATOM	17513	CB	THR	G1251	66.564	117.366	53.544	1.00	100.00	G
ATOM	17514	OG1	THR	G1251	67.407	118.518	53.675	1.00	100.00	G
ATOM	17515	CG2	THR	G1251	67.194	116.387	52.551	1.00	100.00	G
ATOM	17516	C	THR	G1251	64.316	116.581	52.735	1.00	100.07	G
ATOM	17517	O	THR	G1251	63.649	116.013	53.609	1.00	100.07	G
ATOM	17518	N	ASP	G1252	64.359	116.180	51.461	1.00	100.07	G

ATOM	17519	CA	ASP	G1252	63.614	115.020	50.972	1.00100.07	G
ATOM	17520	CB	ASP	G1252	63.187	115.232	49.511	1.00 98.49	G
ATOM	17521	CG	ASP	G1252	61.773	115.784	49.391	1.00 98.49	G
ATOM	17522	OD1	ASP	G1252	60.841	115.135	49.907	1.00 98.49	G
ATOM	17523	OD2	ASP	G1252	61.587	116.858	48.781	1.00 98.49	G
ATOM	17524	C	ASP	G1252	64.328	113.668	51.118	1.00100.07	G
ATOM	17525	O	ASP	G1252	65.199	113.502	51.988	1.00100.07	G
ATOM	17526	N	ILE	G1253	63.951	112.715	50.260	1.00 63.35	G
ATOM	17527	CA	ILE	G1253	64.471	111.342	50.302	1.00 63.35	G
ATOM	17528	CB	ILE	G1253	66.015	111.296	50.414	1.00 69.32	G
ATOM	17529	CG2	ILE	G1253	66.506	109.894	50.108	1.00 69.32	G
ATOM	17530	CG1	ILE	G1253	66.657	112.260	49.415	1.00 69.32	G
ATOM	17531	CD	ILE	G1253	68.161	112.447	49.629	1.00 69.32	G
ATOM	17532	C	ILE	G1253	63.843	110.745	51.577	1.00 63.35	G
ATOM	17533	O	ILE	G1253	63.841	109.531	51.804	1.00 63.35	G
ATOM	17534	N	THR	G1254	63.308	111.656	52.392	1.00100.07	G
ATOM	17535	CA	THR	G1254	62.623	111.370	53.652	1.00100.07	G
ATOM	17536	CB	THR	G1254	61.901	112.668	54.176	1.00100.07	G
ATOM	17537	OG1	THR	G1254	61.475	112.489	55.534	1.00100.07	G
ATOM	17538	CG2	THR	G1254	60.677	113.003	53.303	1.00100.07	G
ATOM	17539	C	THR	G1254	61.589	110.305	53.314	1.00100.07	G
ATOM	17540	O	THR	G1254	61.221	109.464	54.137	1.00100.07	G
ATOM	17541	N	GLN	G1255	61.144	110.369	52.067	1.00100.07	G
ATOM	17542	CA	GLN	G1255	60.159	109.464	51.514	1.00100.07	G
ATOM	17543	CB	GLN	G1255	60.160	109.624	49.983	1.00100.07	G
ATOM	17544	CG	GLN	G1255	61.541	109.483	49.328	1.00100.07	G
ATOM	17545	CD	GLN	G1255	61.559	109.915	47.868	1.00100.07	G
ATOM	17546	OE1	GLN	G1255	60.690	109.536	47.084	1.00100.07	G
ATOM	17547	NE2	GLN	G1255	62.561	110.703	47.498	1.00100.07	G
ATOM	17548	C	GLN	G1255	60.344	107.991	51.914	1.00100.07	G
ATOM	17549	O	GLN	G1255	59.661	107.495	52.822	1.00100.07	G
ATOM	17550	N	GLY	G1256	61.263	107.294	51.248	1.00 57.81	G
ATOM	17551	CA	GLY	G1256	61.461	105.893	51.559	1.00 57.81	G
ATOM	17552	C	GLY	G1256	62.640	105.213	50.897	1.00 57.81	G
ATOM	17553	O	GLY	G1256	63.728	105.781	50.821	1.00 57.81	G
ATOM	17554	N	LEU	G1257	62.413	103.994	50.409	1.00 53.49	G
ATOM	17555	CA	LEU	G1257	63.470	103.203	49.787	1.00 53.49	G
ATOM	17556	CB	LEU	G1257	62.925	102.355	48.623	1.00 27.44	G
ATOM	17557	CG	LEU	G1257	63.865	101.244	48.117	1.00 27.44	G
ATOM	17558	CD1	LEU	G1257	64.133	100.245	49.226	1.00 27.44	G
ATOM	17559	CD2	LEU	G1257	63.249	100.531	46.936	1.00 27.44	G
ATOM	17560	C	LEU	G1257	64.623	104.076	49.304	1.00 53.49	G
ATOM	17561	O	LEU	G1257	65.759	103.926	49.776	1.00 53.49	G
ATOM	17562	N	PRO	G1258	64.342	105.020	48.381	1.00 35.93	G
ATOM	17563	CD	PRO	G1258	63.039	105.468	47.851	1.00 27.16	G
ATOM	17564	CA	PRO	G1258	65.415	105.880	47.884	1.00 35.93	G
ATOM	17565	CB	PRO	G1258	64.659	107.094	47.366	1.00 27.16	G
ATOM	17566	CG	PRO	G1258	63.456	106.447	46.740	1.00 27.16	G
ATOM	17567	C	PRO	G1258	66.397	106.203	48.992	1.00 35.93	G
ATOM	17568	O	PRO	G1258	67.605	106.172	48.783	1.00 35.93	G
ATOM	17569	N	ARG	G1259	65.882	106.487	50.178	1.00 22.20	G
ATOM	17570	CA	ARG	G1259	66.773	106.770	51.283	1.00 22.20	G
ATOM	17571	CB	ARG	G1259	66.076	107.525	52.418	1.00 50.93	G
ATOM	17572	CG	ARG	G1259	66.960	107.595	53.657	1.00 50.93	G
ATOM	17573	CD	ARG	G1259	66.802	108.878	54.434	1.00 50.93	G
ATOM	17574	NE	ARG	G1259	68.032	109.186	55.160	1.00 50.93	G
ATOM	17575	CZ	ARG	G1259	69.208	109.397	54.572	1.00 50.93	G
ATOM	17576	NH1	ARG	G1259	69.310	109.334	53.253	1.00 50.93	G
ATOM	17577	NH2	ARG	G1259	70.287	109.660	55.300	1.00 50.93	G
ATOM	17578	C	ARG	G1259	67.281	105.459	51.814	1.00 22.20	G
ATOM	17579	O	ARG	G1259	68.488	105.269	51.965	1.00 22.20	G
ATOM	17580	N	VAL	G1260	66.356	104.556	52.105	1.00 30.03	G
ATOM	17581	CA	VAL	G1260	66.739	103.261	52.621	1.00 30.03	G
ATOM	17582	CB	VAL	G1260	65.552	102.308	52.626	1.00 22.14	G
ATOM	17583	CG1	VAL	G1260	65.972	100.939	53.160	1.00 22.14	G
ATOM	17584	CG2	VAL	G1260	64.449	102.902	53.473	1.00 22.14	G
ATOM	17585	C	VAL	G1260	67.867	102.696	51.770	1.00 30.03	G
ATOM	17586	O	VAL	G1260	68.567	101.781	52.199	1.00 30.03	G
ATOM	17587	N	ILE	G1261	68.035	103.248	50.568	1.00 59.61	G
ATOM	17588	CA	ILE	G1261	69.109	102.847	49.658	1.00 59.61	G
ATOM	17589	CB	ILE	G1261	68.641	102.823	48.206	1.00 37.45	G
ATOM	17590	CG2	ILE	G1261	69.824	102.957	47.260	1.00 37.45	G
ATOM	17591	CG1	ILE	G1261	67.889	101.534	47.946	1.00 37.45	G
ATOM	17592	CD	ILE	G1261	67.453	101.408	46.518	1.00 37.45	G
ATOM	17593	C	ILE	G1261	70.271	103.835	49.771	1.00 59.61	G
ATOM	17594	O	ILE	G1261	71.405	103.436	50.060	1.00 59.61	G
ATOM	17595	N	GLU	G1262	69.981	105.119	49.531	1.00 24.23	G
ATOM	17596	CA	GLU	G1262	70.979	106.187	49.630	1.00 24.23	G
ATOM	17597	CB	GLU	G1262	70.273	107.548	49.727	1.00 18.19	G
ATOM	17598	CG	GLU	G1262	71.110	108.733	50.207	1.00 18.19	G
ATOM	17599	CD	GLU	G1262	70.370	110.076	50.099	1.00 18.19	G
ATOM	17600	OE1	GLU	G1262	70.249	110.591	48.973	1.00 18.19	G
ATOM	17601	OE2	GLU	G1262	69.909	110.624	51.123	1.00 18.19	G
ATOM	17602	C	GLU	G1262	71.745	105.861	50.896	1.00 24.23	G

ATOM	17603	O	GLU	G1262	72.924	106.178	51.041	1.00	24.23	G
ATOM	17604	N	LEU	G1263	71.051	105.199	51.810	1.00	51.86	G
ATOM	17605	CA	LEU	G1263	71.656	104.762	53.043	1.00	51.86	G
ATOM	17606	CB	LEU	G1263	70.586	104.248	53.993	1.00	43.95	G
ATOM	17607	CG	LEU	G1263	70.120	105.160	55.121	1.00	43.95	G
ATOM	17608	CD1	LEU	G1263	70.081	106.597	54.653	1.00	43.95	G
ATOM	17609	CD2	LEU	G1263	68.751	104.700	55.588	1.00	43.95	G
ATOM	17610	C	LEU	G1263	72.581	103.627	52.647	1.00	51.86	G
ATOM	17611	O	LEU	G1263	73.733	103.853	52.301	1.00	51.86	G
ATOM	17612	N	PHE	G1264	72.051	102.412	52.669	1.00	30.94	G
ATOM	17613	CA	PHE	G1264	72.799	101.212	52.328	1.00	30.94	G
ATOM	17614	CB	PHE	G1264	71.857	100.202	51.682	1.00	22.91	G
ATOM	17615	CG	PHE	G1264	71.003	99.453	52.673	1.00	22.91	G
ATOM	17616	CD1	PHE	G1264	69.687	99.104	52.355	1.00	22.91	G
ATOM	17617	CD2	PHE	G1264	71.533	99.043	53.907	1.00	22.91	G
ATOM	17618	CE1	PHE	G1264	68.911	98.359	53.238	1.00	22.91	G
ATOM	17619	CE2	PHE	G1264	70.771	98.295	54.800	1.00	22.91	G
ATOM	17620	CZ	PHE	G1264	69.457	97.951	54.464	1.00	22.91	G
ATOM	17621	C	PHE	G1264	74.023	101.427	51.447	1.00	30.94	G
ATOM	17622	O	PHE	G1264	75.155	101.350	51.929	1.00	30.94	G
ATOM	17623	N	GLU	G1265	73.806	101.701	50.161	1.00	56.36	G
ATOM	17624	CA	GLU	G1265	74.914	101.911	49.227	1.00	56.36	G
ATOM	17625	CB	GLU	G1265	74.377	102.148	47.823	1.00	100.07	G
ATOM	17626	CG	GLU	G1265	74.336	100.898	46.984	1.00	100.07	G
ATOM	17627	CD	GLU	G1265	73.406	101.032	45.798	1.00	100.07	G
ATOM	17628	OE1	GLU	G1265	73.260	102.161	45.280	1.00	100.07	G
ATOM	17629	OE2	GLU	G1265	72.827	100.009	45.377	1.00	100.07	G
ATOM	17630	C	GLU	G1265	75.846	103.044	49.631	1.00	56.36	G
ATOM	17631	O	GLU	G1265	76.828	103.322	48.954	1.00	56.36	G
ATOM	17632	N	ALA	G1266	75.524	103.696	50.739	1.00	76.49	G
ATOM	17633	CA	ALA	G1266	76.345	104.768	51.275	1.00	76.49	G
ATOM	17634	CB	ALA	G1266	77.629	104.191	51.827	1.00	8.17	G
ATOM	17635	C	ALA	G1266	76.677	105.852	50.285	1.00	76.49	G
ATOM	17636	O	ALA	G1266	77.758	105.862	49.712	1.00	76.49	G
ATOM	17637	N	ARG	G1267	75.758	106.776	50.088	1.00	83.66	G
ATOM	17638	CA	ARG	G1267	76.008	107.865	49.166	1.00	83.66	G
ATOM	17639	CB	ARG	G1267	75.024	107.815	47.998	1.00	100.07	G
ATOM	17640	CG	ARG	G1267	75.647	107.294	46.728	1.00	100.07	G
ATOM	17641	CD	ARG	G1267	76.892	108.105	46.433	1.00	100.07	G
ATOM	17642	NE	ARG	G1267	77.691	107.543	45.356	1.00	100.07	G
ATOM	17643	CZ	ARG	G1267	78.834	108.072	44.943	1.00	100.07	G
ATOM	17644	NH1	ARG	G1267	79.298	109.170	45.528	1.00	100.07	G
ATOM	17645	NH2	ARG	G1267	79.504	107.512	43.942	1.00	100.07	G
ATOM	17646	C	ARG	G1267	75.852	109.166	49.912	1.00	83.66	G
ATOM	17647	O	ARG	G1267	75.187	109.203	50.944	1.00	83.66	G
ATOM	17648	N	ARG	G1268	76.480	110.230	49.424	1.00	24.69	G
ATOM	17649	CA	ARG	G1268	76.322	111.503	50.098	1.00	24.69	G
ATOM	17650	CB	ARG	G1268	77.654	112.262	50.246	1.00	100.07	G
ATOM	17651	CG	ARG	G1268	78.353	112.751	48.990	1.00	100.07	G
ATOM	17652	CD	ARG	G1268	79.276	113.917	49.370	1.00	100.07	G
ATOM	17653	NE	ARG	G1268	80.157	114.349	48.283	1.00	100.07	G
ATOM	17654	CZ	ARG	G1268	80.827	115.502	48.264	1.00	100.07	G
ATOM	17655	NH1	ARG	G1268	80.719	116.356	49.278	1.00	100.07	G
ATOM	17656	NH2	ARG	G1268	81.611	115.804	47.232	1.00	100.07	G
ATOM	17657	C	ARG	G1268	75.326	112.281	49.281	1.00	24.69	G
ATOM	17658	O	ARG	G1268	75.683	112.949	48.315	1.00	24.69	G
ATOM	17659	N	PRO	G1269	74.050	112.190	49.665	1.00	49.29	G
ATOM	17660	CD	PRO	G1269	73.791	111.657	51.006	1.00	23.60	G
ATOM	17661	CA	PRO	G1269	72.830	112.789	49.112	1.00	49.29	G
ATOM	17662	CB	PRO	G1269	71.790	112.506	50.184	1.00	23.60	G
ATOM	17663	CG	PRO	G1269	72.606	112.447	51.425	1.00	23.60	G
ATOM	17664	C	PRO	G1269	72.866	114.260	48.759	1.00	49.29	G
ATOM	17665	O	PRO	G1269	73.908	114.817	48.429	1.00	49.29	G
ATOM	17666	N	LYS	G1270	71.697	114.883	48.827	1.00	100.07	G
ATOM	17667	CA	LYS	G1270	71.582	116.295	48.522	1.00	100.07	G
ATOM	17668	CB	LYS	G1270	70.185	116.602	47.967	1.00	100.07	G
ATOM	17669	CG	LYS	G1270	69.039	116.478	48.976	1.00	100.07	G
ATOM	17670	CD	LYS	G1270	67.815	117.256	48.498	1.00	100.07	G
ATOM	17671	CE	LYS	G1270	66.819	117.490	49.627	1.00	100.07	G
ATOM	17672	NZ	LYS	G1270	65.675	118.364	49.234	1.00	100.07	G
ATOM	17673	C	LYS	G1270	71.826	117.108	49.791	1.00	100.07	G
ATOM	17674	O	LYS	G1270	72.729	117.952	49.849	1.00	100.07	G
ATOM	17675	N	ALA	G1271	71.012	116.829	50.803	1.00	43.78	G
ATOM	17676	CA	ALA	G1271	71.089	117.511	52.080	1.00	43.78	G
ATOM	17677	CB	ALA	G1271	70.400	116.671	53.140	1.00	83.00	G
ATOM	17678	C	ALA	G1271	72.513	117.834	52.523	1.00	43.78	G
ATOM	17679	O	ALA	G1271	72.932	118.991	52.493	1.00	43.78	G
ATOM	17680	N	LYS	G1272	73.242	116.795	52.921	1.00	68.73	G
ATOM	17681	CA	LYS	G1272	74.609	116.905	53.427	1.00	68.73	G
ATOM	17682	CB	LYS	G1272	75.471	117.842	52.567	1.00	68.65	G
ATOM	17683	CG	LYS	G1272	76.845	118.114	53.189	1.00	68.65	G
ATOM	17684	CD	LYS	G1272	77.969	118.305	52.168	1.00	68.65	G
ATOM	17685	CE	LYS	G1272	79.301	118.551	52.880	1.00	68.65	G
ATOM	17686	NZ	LYS	G1272	80.464	118.598	51.962	1.00	68.65	G

ATOM	17687	C	LYS	G1272	74.538	117.412	54.866	1.00	68.73	G
ATOM	17688	O	LYS	G1272	75.182	116.878	55.766	1.00	68.73	G
ATOM	17689	N	ALA	G1273	73.743	118.446	55.084	1.00	53.93	G
ATOM	17690	CA	ALA	G1273	73.567	118.988	56.421	1.00	53.93	G
ATOM	17691	CB	ALA	G1273	72.907	117.937	57.313	1.00	55.89	G
ATOM	17692	C	ALA	G1273	74.839	119.498	57.080	1.00	53.93	G
ATOM	17693	O	ALA	G1273	74.796	120.023	58.191	1.00	53.93	G
ATOM	17694	N	VAL	G1274	75.971	119.351	56.406	1.00	48.02	G
ATOM	17695	CA	VAL	G1274	77.231	119.811	56.971	1.00	48.02	G
ATOM	17696	CB	VAL	G1274	77.241	121.332	57.210	1.00	44.30	G
ATOM	17697	CG1	VAL	G1274	78.657	121.790	57.466	1.00	44.30	G
ATOM	17698	CG2	VAL	G1274	76.642	122.067	56.034	1.00	44.30	G
ATOM	17699	C	VAL	G1274	77.483	119.161	58.325	1.00	48.02	G
ATOM	17700	O	VAL	G1274	76.626	119.167	59.201	1.00	48.02	G
ATOM	17701	N	ILE	G1275	78.668	118.598	58.491	1.00	41.38	G
ATOM	17702	CA	ILE	G1275	79.037	117.968	59.740	1.00	41.38	G
ATOM	17703	CB	ILE	G1275	79.524	116.539	59.502	1.00	81.15	G
ATOM	17704	CG2	ILE	G1275	79.986	115.940	60.799	1.00	81.15	G
ATOM	17705	CG1	ILE	G1275	78.410	115.696	58.889	1.00	81.15	G
ATOM	17706	CD	ILE	G1275	77.225	115.484	59.807	1.00	81.15	G
ATOM	17707	C	ILE	G1275	80.212	118.799	60.209	1.00	41.38	G
ATOM	17708	O	ILE	G1275	81.298	118.664	59.655	1.00	41.38	G
ATOM	17709	N	SER	G1276	80.011	119.677	61.187	1.00	34.20	G
ATOM	17710	CA	SER	G1276	81.112	120.507	61.688	1.00	34.20	G
ATOM	17711	CB	SER	G1276	80.617	121.471	62.774	1.00	55.01	G
ATOM	17712	OG	SER	G1276	81.651	121.812	63.696	1.00	55.01	G
ATOM	17713	C	SER	G1276	82.234	119.660	62.262	1.00	34.20	G
ATOM	17714	O	SER	G1276	82.028	118.913	63.214	1.00	34.20	G
ATOM	17715	N	GLU	G1277	83.420	119.770	61.679	1.00	75.63	G
ATOM	17716	CA	GLU	G1277	84.563	119.020	62.171	1.00	75.63	G
ATOM	17717	CB	GLU	G1277	85.671	119.009	61.112	1.00	100.07	G
ATOM	17718	CG	GLU	G1277	86.050	120.391	60.585	1.00	100.07	G
ATOM	17719	CD	GLU	G1277	86.366	120.401	59.092	1.00	100.07	G
ATOM	17720	OE1	GLU	G1277	87.192	119.580	58.640	1.00	100.07	G
ATOM	17721	OE2	GLU	G1277	85.787	121.240	58.368	1.00	100.07	G
ATOM	17722	C	GLU	G1277	85.004	119.756	63.428	1.00	75.63	G
ATOM	17723	O	GLU	G1277	84.208	120.490	64.010	1.00	75.63	G
ATOM	17724	N	ILE	G1278	86.248	119.555	63.852	1.00	80.74	G
ATOM	17725	CA	ILE	G1278	86.799	120.233	65.029	1.00	80.74	G
ATOM	17726	CB	ILE	G1278	87.774	121.374	64.593	1.00	100.07	G
ATOM	17727	CG2	ILE	G1278	87.691	122.567	65.531	1.00	100.07	G
ATOM	17728	CG1	ILE	G1278	89.207	120.840	64.563	1.00	100.07	G
ATOM	17729	CD	ILE	G1278	89.737	120.376	65.917	1.00	100.07	G
ATOM	17730	C	ILE	G1278	85.789	120.801	66.027	1.00	80.74	G
ATOM	17731	O	ILE	G1278	85.222	121.879	65.821	1.00	80.74	G
ATOM	17732	N	ASP	G1279	85.566	120.063	67.111	1.00	50.25	G
ATOM	17733	CA	ASP	G1279	84.661	120.500	68.161	1.00	50.25	G
ATOM	17734	CB	ASP	G1279	84.793	119.589	69.393	1.00	100.07	G
ATOM	17735	CG	ASP	G1279	86.244	119.201	69.706	1.00	100.07	G
ATOM	17736	OD1	ASP	G1279	86.902	118.563	68.857	1.00	100.07	G
ATOM	17737	OD2	ASP	G1279	86.727	119.521	70.814	1.00	100.07	G
ATOM	17738	C	ASP	G1279	85.070	121.921	68.504	1.00	50.25	G
ATOM	17739	O	ASP	G1279	86.254	122.248	68.481	1.00	50.25	G
ATOM	17740	N	GLY	G1280	84.095	122.768	68.809	1.00	29.41	G
ATOM	17741	CA	GLY	G1280	84.411	124.150	69.124	1.00	29.41	G
ATOM	17742	C	GLY	G1280	83.245	125.071	69.430	1.00	29.41	G
ATOM	17743	O	GLY	G1280	82.083	124.664	69.495	1.00	29.41	G
ATOM	17744	N	VAL	G1281	83.565	126.348	69.558	1.00	28.20	G
ATOM	17745	CA	VAL	G1281	82.578	127.347	69.940	1.00	28.20	G
ATOM	17746	CB	VAL	G1281	83.286	128.529	70.655	1.00	100.07	G
ATOM	17747	CG1	VAL	G1281	82.279	129.348	71.464	1.00	100.07	G
ATOM	17748	CG2	VAL	G1281	84.398	127.998	71.559	1.00	100.07	G
ATOM	17749	C	VAL	G1281	81.600	127.946	68.937	1.00	28.20	G
ATOM	17750	O	VAL	G1281	81.725	127.792	67.721	1.00	28.20	G
ATOM	17751	N	VAL	G1282	80.623	128.637	69.519	1.00	99.55	G
ATOM	17752	CA	VAL	G1282	79.558	129.357	68.837	1.00	99.55	G
ATOM	17753	CB	VAL	G1282	78.833	130.306	69.823	1.00	100.07	G
ATOM	17754	CG1	VAL	G1282	77.705	131.022	69.126	1.00	100.07	G
ATOM	17755	CG2	VAL	G1282	78.352	129.552	71.042	1.00	100.07	G
ATOM	17756	C	VAL	G1282	80.169	130.251	67.773	1.00	99.55	G
ATOM	17757	O	VAL	G1282	81.364	130.548	67.821	1.00	99.55	G
ATOM	17758	N	ARG	G1283	79.336	130.697	66.834	1.00	95.80	G
ATOM	17759	CA	ARG	G1283	79.772	131.602	65.776	1.00	95.80	G
ATOM	17760	CB	ARG	G1283	81.100	131.146	65.181	1.00	100.07	G
ATOM	17761	CG	ARG	G1283	81.705	132.158	64.223	1.00	100.07	G
ATOM	17762	CD	ARG	G1283	82.261	133.375	64.952	1.00	100.07	G
ATOM	17763	NE	ARG	G1283	82.248	134.560	64.099	1.00	100.07	G
ATOM	17764	CZ	ARG	G1283	82.765	135.735	64.437	1.00	100.07	G
ATOM	17765	NH1	ARG	G1283	83.350	135.887	65.615	1.00	100.07	G
ATOM	17766	NH2	ARG	G1283	82.674	136.766	63.607	1.00	100.07	G
ATOM	17767	C	ARG	G1283	78.761	131.737	64.650	1.00	95.80	G
ATOM	17768	O	ARG	G1283	78.414	130.758	64.001	1.00	95.80	G
ATOM	17769	N	ILE	G1284	78.294	132.956	64.416	1.00	75.14	G
ATOM	17770	CA	ILE	G1284	77.341	133.201	63.350	1.00	75.14	G

ATOM	17855	CB	VAL	G1295	82.836	125.433	64.081	1.00	41.33	G
ATOM	17856	CG1	VAL	G1295	83.420	124.667	65.253	1.00	41.33	G
ATOM	17857	CG2	VAL	G1295	81.358	125.143	63.956	1.00	41.33	G
ATOM	17858	C	VAL	G1295	84.531	127.209	64.647	1.00	37.72	G
ATOM	17859	O	VAL	G1295	85.448	126.602	64.067	1.00	37.72	G
ATOM	17860	N	GLU	G1296	84.737	128.085	65.643	1.00	49.18	G
ATOM	17861	CA	GLU	G1296	86.076	128.495	66.115	1.00	49.18	G
ATOM	17862	CB	GLU	G1296	86.276	129.989	65.855	1.00	63.88	G
ATOM	17863	CG	GLU	G1296	85.400	130.888	66.711	1.00	63.88	G
ATOM	17864	CD	GLU	G1296	85.045	132.207	66.030	1.00	63.88	G
ATOM	17865	OE1	GLU	G1296	84.447	133.067	66.707	1.00	63.88	G
ATOM	17866	OE2	GLU	G1296	85.347	132.387	64.827	1.00	63.88	G
ATOM	17867	C	GLU	G1296	86.374	128.225	67.584	1.00	49.18	G
ATOM	17868	O	GLU	G1296	85.471	128.179	68.418	1.00	49.18	G
ATOM	17869	N	SER	G1297	87.660	128.092	67.894	1.00	53.13	G
ATOM	17870	CA	SER	G1297	88.092	127.801	69.256	1.00	53.13	G
ATOM	17871	CB	SER	G1297	87.462	126.497	69.689	1.00	52.77	G
ATOM	17872	OG	SER	G1297	87.895	125.482	68.807	1.00	52.77	G
ATOM	17873	C	SER	G1297	89.612	127.648	69.349	1.00	53.13	G
ATOM	17874	O	SER	G1297	90.095	126.668	69.927	1.00	53.13	G
ATOM	17875	N	GLU	G1298	90.340	128.615	68.783	1.00	98.77	G
ATOM	17876	CA	GLU	G1298	91.816	128.659	68.721	1.00	98.77	G
ATOM	17877	CB	GLU	G1298	92.467	127.888	69.873	1.00	80.31	G
ATOM	17878	CG	GLU	G1298	92.001	128.378	71.207	1.00	80.31	G
ATOM	17879	CD	GLU	G1298	91.548	129.803	71.111	1.00	80.31	G
ATOM	17880	OE1	GLU	G1298	92.422	130.687	71.023	1.00	80.31	G
ATOM	17881	OE2	GLU	G1298	90.321	130.034	71.088	1.00	80.31	G
ATOM	17882	C	GLU	G1298	92.278	128.086	67.394	1.00	98.77	G
ATOM	17883	O	GLU	G1298	93.395	127.597	67.258	1.00	98.77	G
ATOM	17884	N	GLY	G1299	91.386	128.170	66.417	1.00	97.09	G
ATOM	17885	CA	GLY	G1299	91.653	127.670	65.088	1.00	97.09	G
ATOM	17886	C	GLY	G1299	90.317	127.568	64.389	1.00	97.09	G
ATOM	17887	O	GLY	G1299	89.890	126.475	64.037	1.00	97.09	G
ATOM	17888	N	PHE	G1300	89.657	128.709	64.195	1.00	45.94	G
ATOM	17889	CA	PHE	G1300	88.348	128.744	63.552	1.00	45.94	G
ATOM	17890	CB	PHE	G1300	87.924	130.189	63.242	1.00	99.80	G
ATOM	17891	CG	PHE	G1300	88.885	130.944	62.365	1.00	99.80	G
ATOM	17892	CD1	PHE	G1300	89.239	130.464	61.105	1.00	99.80	G
ATOM	17893	CD2	PHE	G1300	89.420	132.159	62.791	1.00	99.80	G
ATOM	17894	CE1	PHE	G1300	90.119	131.179	60.278	1.00	99.80	G
ATOM	17895	CE2	PHE	G1300	90.300	132.887	61.976	1.00	99.80	G
ATOM	17896	CZ	PHE	G1300	90.648	132.394	60.714	1.00	99.80	G
ATOM	17897	C	PHE	G1300	88.224	127.909	62.285	1.00	45.94	G
ATOM	17898	O	PHE	G1300	89.221	127.527	61.668	1.00	45.94	G
ATOM	17899	N	SER	G1301	86.977	127.620	61.920	1.00	37.90	G
ATOM	17900	CA	SER	G1301	86.653	126.855	60.721	1.00	37.90	G
ATOM	17901	CB	SER	G1301	86.269	125.406	61.075	1.00	80.12	G
ATOM	17902	OG	SER	G1301	85.985	124.629	59.915	1.00	80.12	G
ATOM	17903	C	SER	G1301	85.464	127.566	60.084	1.00	37.90	G
ATOM	17904	O	SER	G1301	84.600	128.093	60.790	1.00	37.90	G
ATOM	17905	N	LYS	G1302	85.425	127.594	58.758	1.00	32.96	G
ATOM	17906	CA	LYS	G1302	84.330	128.244	58.066	1.00	32.96	G
ATOM	17907	CB	LYS	G1302	84.867	129.259	57.062	1.00	75.05	G
ATOM	17908	CG	LYS	G1302	85.137	130.617	57.638	1.00	75.05	G
ATOM	17909	CD	LYS	G1302	85.512	131.560	56.532	1.00	75.05	G
ATOM	17910	CE	LYS	G1302	85.825	132.926	57.079	1.00	75.05	G
ATOM	17911	NZ	LYS	G1302	86.428	133.771	56.020	1.00	75.05	G
ATOM	17912	C	LYS	G1302	83.395	127.290	57.332	1.00	32.96	G
ATOM	17913	O	LYS	G1302	83.839	126.318	56.707	1.00	32.96	G
ATOM	17914	N	GLU	G1303	82.097	127.580	57.410	1.00	66.97	G
ATOM	17915	CA	GLU	G1303	81.099	126.791	56.707	1.00	66.97	G
ATOM	17916	CB	GLU	G1303	80.131	126.152	57.686	1.00	21.69	G
ATOM	17917	CG	GLU	G1303	80.404	124.661	57.863	1.00	21.69	G
ATOM	17918	CD	GLU	G1303	81.685	124.364	58.620	1.00	21.69	G
ATOM	17919	OE1	GLU	G1303	81.706	124.584	59.845	1.00	21.69	G
ATOM	17920	OE2	GLU	G1303	82.671	123.910	58.000	1.00	21.69	G
ATOM	17921	C	GLU	G1303	80.391	127.677	55.678	1.00	66.97	G
ATOM	17922	O	GLU	G1303	80.929	128.715	55.310	1.00	66.97	G
ATOM	17923	N	TYR	G1304	79.199	127.328	55.207	1.00	57.42	G
ATOM	17924	CA	TYR	G1304	78.636	128.169	54.156	1.00	57.42	G
ATOM	17925	CB	TYR	G1304	79.428	127.865	52.885	1.00	86.52	G
ATOM	17926	CG	TYR	G1304	80.090	126.485	52.917	1.00	86.52	G
ATOM	17927	CD1	TYR	G1304	79.335	125.314	52.766	1.00	86.52	G
ATOM	17928	CE1	TYR	G1304	79.937	124.039	52.849	1.00	86.52	G
ATOM	17929	CD2	TYR	G1304	81.470	126.350	53.150	1.00	86.52	G
ATOM	17930	CE2	TYR	G1304	82.078	125.083	53.236	1.00	86.52	G
ATOM	17931	CZ	TYR	G1304	81.306	123.933	53.085	1.00	86.52	G
ATOM	17932	OH	TYR	G1304	81.893	122.686	53.173	1.00	86.52	G
ATOM	17933	C	TYR	G1304	77.138	128.093	53.871	1.00	57.42	G
ATOM	17934	O	TYR	G1304	76.321	128.045	54.795	1.00	57.42	G
ATOM	17935	N	LYS	G1305	76.806	128.113	52.575	1.00	88.70	G
ATOM	17936	CA	LYS	G1305	75.437	128.035	52.028	1.00	88.70	G
ATOM	17937	CB	LYS	G1305	74.862	126.625	52.221	1.00	100.07	G
ATOM	17938	CG	LYS	G1305	74.935	125.736	50.985	1.00	100.07	G

ATOM	17939	CD	LYS	G1305	74.446	124.332	51.300	1.00100.07	G
ATOM	17940	CE	LYS	G1305	74.634	123.403	50.115	1.00100.07	G
ATOM	17941	NZ	LYS	G1305	74.421	121.972	50.491	1.00100.07	G
ATOM	17942	C	LYS	G1305	74.390	129.052	52.478	1.00 88.70	G
ATOM	17943	O	LYS	G1305	74.702	130.028	53.165	1.00 88.70	G
ATOM	17944	N	LEU	G1306	73.144	128.799	52.070	1.00 71.40	G
ATOM	17945	CA	LEU	G1306	72.002	129.660	52.385	1.00 71.40	G
ATOM	17946	CB	LEU	G1306	71.846	130.700	51.274	1.00100.07	G
ATOM	17947	CG	LEU	G1306	73.118	131.329	50.695	1.00100.07	G
ATOM	17948	CD1	LEU	G1306	72.781	132.108	49.430	1.00100.07	G
ATOM	17949	CD2	LEU	G1306	73.759	132.236	51.731	1.00100.07	G
ATOM	17950	C	LEU	G1306	70.671	128.876	52.518	1.00 71.40	G
ATOM	17951	O	LEU	G1306	69.653	129.273	51.942	1.00 71.40	G
ATOM	17952	N	PRO	G1307	70.653	127.765	53.283	1.00100.07	G
ATOM	17953	CD	PRO	G1307	71.790	126.974	53.801	1.00100.07	G
ATOM	17954	CA	PRO	G1307	69.406	127.000	53.417	1.00100.07	G
ATOM	17955	CB	PRO	G1307	69.895	125.571	53.308	1.00100.07	G
ATOM	17956	CG	PRO	G1307	71.129	125.632	54.193	1.00100.07	G
ATOM	17957	C	PRO	G1307	68.675	127.215	54.735	1.00100.07	G
ATOM	17958	O	PRO	G1307	68.482	128.344	55.189	1.00100.07	G
ATOM	17959	N	LYS	G1308	68.270	126.096	55.332	1.00 79.79	G
ATOM	17960	CA	LYS	G1308	67.577	126.087	56.611	1.00 79.79	G
ATOM	17961	CB	LYS	G1308	66.357	125.146	56.563	1.00 87.61	G
ATOM	17962	CG	LYS	G1308	65.670	124.884	57.910	1.00 87.61	G
ATOM	17963	CD	LYS	G1308	65.625	126.119	58.798	1.00 87.61	G
ATOM	17964	CE	LYS	G1308	64.911	127.281	58.129	1.00 87.61	G
ATOM	17965	NZ	LYS	G1308	65.018	128.530	58.936	1.00 87.61	G
ATOM	17966	C	LYS	G1308	68.576	125.635	57.664	1.00 79.79	G
ATOM	17967	O	LYS	G1308	69.071	124.512	57.645	1.00 79.79	G
ATOM	17968	N	ASP	G1309	68.886	126.541	58.575	1.00 67.57	G
ATOM	17969	CA	ASP	G1309	69.833	126.251	59.632	1.00 67.57	G
ATOM	17970	CB	ASP	G1309	70.265	127.548	60.306	1.00 71.72	G
ATOM	17971	CG	ASP	G1309	71.671	127.478	60.839	1.00 71.72	G
ATOM	17972	OD1	ASP	G1309	71.908	126.716	61.802	1.00 71.72	G
ATOM	17973	OD2	ASP	G1309	72.539	128.182	60.284	1.00 71.72	G
ATOM	17974	C	ASP	G1309	69.151	125.349	60.633	1.00 67.57	G
ATOM	17975	O	ASP	G1309	68.019	124.930	60.409	1.00 67.57	G
ATOM	17976	N	ALA	G1310	69.833	125.064	61.737	1.00 74.93	G
ATOM	17977	CA	ALA	G1310	69.282	124.200	62.771	1.00 74.93	G
ATOM	17978	CB	ALA	G1310	69.829	122.785	62.619	1.00100.07	G
ATOM	17979	C	ALA	G1310	69.582	124.717	64.166	1.00 74.93	G
ATOM	17980	O	ALA	G1310	70.421	124.141	64.870	1.00 74.93	G
ATOM	17981	N	ARG	G1311	68.896	125.798	64.550	1.00100.07	G
ATOM	17982	CA	ARG	G1311	69.040	126.417	65.874	1.00100.07	G
ATOM	17983	CB	ARG	G1311	68.272	125.566	66.900	1.00100.07	G
ATOM	17984	CG	ARG	G1311	67.973	126.219	68.247	1.00100.07	G
ATOM	17985	CD	ARG	G1311	67.027	125.318	69.052	1.00100.07	G
ATOM	17986	NE	ARG	G1311	66.638	125.873	70.350	1.00100.07	G
ATOM	17987	CZ	ARG	G1311	65.720	125.333	71.150	1.00100.07	G
ATOM	17988	NH1	ARG	G1311	65.089	124.221	70.793	1.00100.07	G
ATOM	17989	NH2	ARG	G1311	65.424	125.906	72.309	1.00100.07	G
ATOM	17990	C	ARG	G1311	70.525	126.523	66.250	1.00100.07	G
ATOM	17991	O	ARG	G1311	71.102	125.579	66.792	1.00100.07	G
ATOM	17992	N	LEU	G1312	71.140	127.671	65.979	1.00 83.13	G
ATOM	17993	CA	LEU	G1312	72.562	127.824	66.262	1.00 83.13	G
ATOM	17994	CB	LEU	G1312	73.303	127.937	64.923	1.00 99.53	G
ATOM	17995	CG	LEU	G1312	74.821	128.130	64.824	1.00 99.53	G
ATOM	17996	CD1	LEU	G1312	75.574	127.346	65.896	1.00 99.53	G
ATOM	17997	CD2	LEU	G1312	75.250	127.721	63.436	1.00 99.53	G
ATOM	17998	C	LEU	G1312	72.996	128.937	67.234	1.00 83.13	G
ATOM	17999	O	LEU	G1312	72.326	129.201	68.236	1.00 83.13	G
ATOM	18000	N	LEU	G1313	74.135	129.561	66.926	1.00 74.79	G
ATOM	18001	CA	LEU	G1313	74.761	130.622	67.721	1.00 74.79	G
ATOM	18002	CB	LEU	G1313	73.894	131.888	67.714	1.00100.07	G
ATOM	18003	CG	LEU	G1313	74.629	133.238	67.621	1.00100.07	G
ATOM	18004	CD1	LEU	G1313	76.021	133.077	67.027	1.00100.07	G
ATOM	18005	CD2	LEU	G1313	73.801	134.196	66.771	1.00100.07	G
ATOM	18006	C	LEU	G1313	74.966	130.065	69.126	1.00 74.79	G
ATOM	18007	O	LEU	G1313	75.198	130.792	70.107	1.00 74.79	G
ATOM	18008	N	VAL	G1314	74.913	128.736	69.164	1.00100.07	G
ATOM	18009	CA	VAL	G1314	75.064	127.921	70.359	1.00100.07	G
ATOM	18010	CB	VAL	G1314	74.066	126.725	70.308	1.00 35.69	G
ATOM	18011	CG1	VAL	G1314	74.460	125.633	71.313	1.00 35.69	G
ATOM	18012	CG2	VAL	G1314	72.656	127.234	70.578	1.00 35.69	G
ATOM	18013	C	VAL	G1314	76.490	127.387	70.465	1.00100.07	G
ATOM	18014	O	VAL	G1314	77.216	127.331	69.469	1.00100.07	G
ATOM	18015	N	LYS	G1315	76.889	127.028	71.684	1.00 33.32	G
ATOM	18016	CA	LYS	G1315	78.211	126.472	71.936	1.00 33.32	G
ATOM	18017	CB	LYS	G1315	78.537	126.507	73.437	1.00 38.58	G
ATOM	18018	CG	LYS	G1315	79.852	127.213	73.844	1.00 38.58	G
ATOM	18019	CD	LYS	G1315	79.984	127.252	75.392	1.00 38.58	G
ATOM	18020	CE	LYS	G1315	81.052	128.218	75.884	1.00 38.58	G
ATOM	18021	NZ	LYS	G1315	82.391	127.808	75.412	1.00 38.58	G
ATOM	18022	C	LYS	G1315	78.103	125.030	71.461	1.00 33.32	G

ATOM	18023	O	LYS	G1315	77.932	124.109	72.260	1.00	33.32	G
ATOM	18024	N	ALA	G1316	78.173	124.852	70.146	1.00	73.20	G
ATOM	18025	CA	ALA	G1316	78.090	123.532	69.542	1.00	73.20	G
ATOM	18026	CB	ALA	G1316	77.795	123.643	68.045	1.00	52.73	G
ATOM	18027	C	ALA	G1316	79.404	122.817	69.752	1.00	73.20	G
ATOM	18028	O	ALA	G1316	80.012	122.357	68.787	1.00	73.20	G
ATOM	18029	N	GLY	G1317	79.846	122.747	71.009	1.00	51.24	G
ATOM	18030	CA	GLY	G1317	81.085	122.063	71.309	1.00	51.24	G
ATOM	18031	C	GLY	G1317	81.131	120.911	70.332	1.00	51.24	G
ATOM	18032	O	GLY	G1317	82.045	120.810	69.511	1.00	51.24	G
ATOM	18033	N	ALA	G1318	80.098	120.074	70.397	1.00	73.77	G
ATOM	18034	CA	ALA	G1318	79.958	118.920	69.521	1.00	73.77	G
ATOM	18035	CB	ALA	G1318	78.974	119.239	68.427	1.00	96.53	G
ATOM	18036	C	ALA	G1318	81.277	118.476	68.913	1.00	73.77	G
ATOM	18037	O	ALA	G1318	82.324	118.576	69.531	1.00	73.77	G
ATOM	18038	N	TYR	G1319	81.213	117.980	67.688	1.00	71.56	G
ATOM	18039	CA	TYR	G1319	82.381	117.496	66.965	1.00	71.56	G
ATOM	18040	CB	TYR	G1319	83.007	116.304	67.700	1.00	100.07	G
ATOM	18041	CG	TYR	G1319	82.040	115.608	68.634	1.00	100.07	G
ATOM	18042	CD1	TYR	G1319	80.958	114.883	68.142	1.00	100.07	G
ATOM	18043	CE1	TYR	G1319	80.014	114.318	69.006	1.00	100.07	G
ATOM	18044	CD2	TYR	G1319	82.160	115.747	70.016	1.00	100.07	G
ATOM	18045	CE2	TYR	G1319	81.225	115.193	70.884	1.00	100.07	G
ATOM	18046	CZ	TYR	G1319	80.156	114.483	70.375	1.00	100.07	G
ATOM	18047	OH	TYR	G1319	79.226	113.951	71.239	1.00	100.07	G
ATOM	18048	C	TYR	G1319	81.820	117.049	65.634	1.00	71.56	G
ATOM	18049	O	TYR	G1319	82.557	116.701	64.716	1.00	71.56	G
ATOM	18050	N	VAL	G1320	80.490	117.080	65.560	1.00	13.09	G
ATOM	18051	CA	VAL	G1320	79.735	116.682	64.381	1.00	13.09	G
ATOM	18052	CB	VAL	G1320	79.529	115.155	64.358	1.00	52.26	G
ATOM	18053	CG1	VAL	G1320	78.414	114.791	63.391	1.00	52.26	G
ATOM	18054	CG2	VAL	G1320	80.829	114.461	63.965	1.00	52.26	G
ATOM	18055	C	VAL	G1320	78.362	117.343	64.385	1.00	13.09	G
ATOM	18056	O	VAL	G1320	77.978	118.014	63.430	1.00	13.09	G
ATOM	18057	N	GLU	G1321	77.634	117.132	65.475	1.00	17.84	G
ATOM	18058	CA	GLU	G1321	76.283	117.666	65.655	1.00	17.84	G
ATOM	18059	CB	GLU	G1321	76.241	118.670	66.809	1.00	99.95	G
ATOM	18060	CG	GLU	G1321	75.968	118.063	68.170	1.00	99.95	G
ATOM	18061	CD	GLU	G1321	75.555	119.110	69.192	1.00	99.95	G
ATOM	18062	OE1	GLU	G1321	75.370	118.751	70.376	1.00	99.95	G
ATOM	18063	OE2	GLU	G1321	75.410	120.292	68.805	1.00	99.95	G
ATOM	18064	C	GLU	G1321	75.647	118.317	64.443	1.00	17.84	G
ATOM	18065	O	GLU	G1321	75.143	119.426	64.542	1.00	17.84	G
ATOM	18066	N	ALA	G1322	75.647	117.627	63.314	1.00	15.61	G
ATOM	18067	CA	ALA	G1322	75.050	118.196	62.121	1.00	15.61	G
ATOM	18068	CB	ALA	G1322	73.527	118.012	62.167	1.00	41.99	G
ATOM	18069	C	ALA	G1322	75.394	119.685	62.050	1.00	15.61	G
ATOM	18070	O	ALA	G1322	74.731	120.492	62.698	1.00	15.61	G
ATOM	18071	N	GLY	G1323	76.430	120.026	61.274	1.00	62.42	G
ATOM	18072	CA	GLY	G1323	76.886	121.408	61.100	1.00	62.42	G
ATOM	18073	C	GLY	G1323	75.957	122.450	61.687	1.00	62.42	G
ATOM	18074	O	GLY	G1323	76.387	123.412	62.326	1.00	62.42	G
ATOM	18075	N	GLN	G1324	74.677	122.232	61.414	1.00	62.08	G
ATOM	18076	CA	GLN	G1324	73.539	123.004	61.884	1.00	62.08	G
ATOM	18077	CB	GLN	G1324	73.959	124.132	62.837	1.00	56.92	G
ATOM	18078	CG	GLN	G1324	73.590	123.779	64.298	1.00	56.92	G
ATOM	18079	CD	GLN	G1324	74.378	124.546	65.347	1.00	56.92	G
ATOM	18080	OE1	GLN	G1324	75.604	124.417	65.454	1.00	56.92	G
ATOM	18081	NE2	GLN	G1324	73.674	125.341	66.136	1.00	56.92	G
ATOM	18082	C	GLN	G1324	72.522	123.486	60.859	1.00	62.08	G
ATOM	18083	O	GLN	G1324	72.041	124.613	60.912	1.00	62.08	G
ATOM	18084	N	PRO	G1325	72.228	122.631	59.869	1.00	41.29	G
ATOM	18085	CD	PRO	G1325	73.319	121.846	59.279	1.00	22.02	G
ATOM	18086	CA	PRO	G1325	71.245	122.911	58.823	1.00	41.29	G
ATOM	18087	CB	PRO	G1325	72.033	122.688	57.520	1.00	22.02	G
ATOM	18088	CG	PRO	G1325	73.475	122.538	57.956	1.00	22.02	G
ATOM	18089	C	PRO	G1325	70.180	121.816	59.078	1.00	41.29	G
ATOM	18090	O	PRO	G1325	70.499	120.613	59.113	1.00	41.29	G
ATOM	18091	N	LEU	G1326	68.936	122.232	59.310	1.00	78.13	G
ATOM	18092	CA	LEU	G1326	67.842	121.290	59.574	1.00	78.13	G
ATOM	18093	CB	LEU	G1326	66.485	122.012	59.529	1.00	100.07	G
ATOM	18094	CG	LEU	G1326	65.155	121.240	59.567	1.00	100.07	G
ATOM	18095	CD1	LEU	G1326	65.144	120.207	60.682	1.00	100.07	G
ATOM	18096	CD2	LEU	G1326	64.021	122.239	59.758	1.00	100.07	G
ATOM	18097	C	LEU	G1326	67.892	120.199	58.527	1.00	78.13	G
ATOM	18098	O	LEU	G1326	67.145	119.225	58.585	1.00	78.13	G
ATOM	18099	N	THR	G1327	68.785	120.400	57.564	1.00	68.34	G
ATOM	18100	CA	THR	G1327	69.028	119.476	56.472	1.00	68.34	G
ATOM	18101	CB	THR	G1327	70.271	119.898	55.704	1.00	100.07	G
ATOM	18102	OG1	THR	G1327	71.297	120.218	56.648	1.00	100.07	G
ATOM	18103	CG2	THR	G1327	69.984	121.123	54.833	1.00	100.07	G
ATOM	18104	C	THR	G1327	69.262	118.099	57.071	1.00	68.34	G
ATOM	18105	O	THR	G1327	68.832	117.087	56.523	1.00	68.34	G
ATOM	18106	N	ARG	G1328	69.957	118.069	58.199	1.00	70.92	G

ATOM	18107	CA	ARG	G1328	70.220	116.820	58.898	1.00	70.92	G
ATOM	18108	CB	ARG	G1328	69.021	116.482	59.808	1.00	84.36	G
ATOM	18109	CG	ARG	G1328	67.786	115.908	59.081	1.00	84.36	G
ATOM	18110	CD	ARG	G1328	66.631	115.629	60.051	1.00	84.36	G
ATOM	18111	NE	ARG	G1328	65.625	114.726	59.489	1.00	84.36	G
ATOM	18112	CZ	ARG	G1328	64.893	114.987	58.411	1.00	84.36	G
ATOM	18113	NH1	ARG	G1328	65.042	116.131	57.759	1.00	84.36	G
ATOM	18114	NH2	ARG	G1328	64.008	114.100	57.984	1.00	84.36	G
ATOM	18115	C	ARG	G1328	70.547	115.602	58.012	1.00	70.92	G
ATOM	18116	O	ARG	G1328	70.637	114.482	58.515	1.00	70.92	G
ATOM	18117	N	GLY	G1329	70.730	115.801	56.710	1.00	33.72	G
ATOM	18118	CA	GLY	G1329	71.043	114.671	55.854	1.00	33.72	G
ATOM	18119	C	GLY	G1329	72.463	114.175	56.087	1.00	33.72	G
ATOM	18120	O	GLY	G1329	73.117	113.727	55.139	1.00	33.72	G
ATOM	18121	N	ALA	G1330	72.924	114.236	57.346	1.00	27.80	G
ATOM	18122	CA	ALA	G1330	74.284	113.842	57.736	1.00	27.80	G
ATOM	18123	CB	ALA	G1330	74.262	112.929	58.944	1.00	5.07	G
ATOM	18124	C	ALA	G1330	75.018	113.183	56.597	1.00	27.80	G
ATOM	18125	O	ALA	G1330	74.900	111.988	56.377	1.00	27.80	G
ATOM	18126	N	ILE	G1331	75.750	114.008	55.861	1.00	29.75	G
ATOM	18127	CA	ILE	G1331	76.541	113.598	54.703	1.00	29.75	G
ATOM	18128	CB	ILE	G1331	77.830	114.501	54.562	1.00	54.85	G
ATOM	18129	CG2	ILE	G1331	78.054	114.894	53.093	1.00	54.85	G
ATOM	18130	CG1	ILE	G1331	77.698	115.755	55.450	1.00	54.85	G
ATOM	18131	CD	ILE	G1331	78.843	116.748	55.367	1.00	54.85	G
ATOM	18132	C	ILE	G1331	76.952	112.146	54.862	1.00	29.75	G
ATOM	18133	O	ILE	G1331	76.834	111.347	53.947	1.00	29.75	G
ATOM	18134	N	ASP	G1332	77.456	111.827	56.045	1.00	18.86	G
ATOM	18135	CA	ASP	G1332	77.909	110.488	56.389	1.00	18.86	G
ATOM	18136	CB	ASP	G1332	76.732	109.563	56.673	1.00	100.07	G
ATOM	18137	CG	ASP	G1332	75.896	109.281	55.436	1.00	100.07	G
ATOM	18138	OD1	ASP	G1332	74.849	109.937	55.259	1.00	100.07	G
ATOM	18139	OD2	ASP	G1332	76.287	108.409	54.634	1.00	100.07	G
ATOM	18140	C	ASP	G1332	78.727	109.835	55.327	1.00	18.86	G
ATOM	18141	O	ASP	G1332	78.968	108.637	55.409	1.00	18.86	G
ATOM	18142	N	PRO	G1333	79.192	110.603	54.331	1.00	100.02	G
ATOM	18143	CD	PRO	G1333	79.535	112.031	54.328	1.00	54.66	G
ATOM	18144	CA	PRO	G1333	79.972	109.937	53.304	1.00	100.02	G
ATOM	18145	CB	PRO	G1333	79.972	110.952	52.163	1.00	54.66	G
ATOM	18146	CG	PRO	G1333	79.686	112.319	52.852	1.00	54.66	G
ATOM	18147	C	PRO	G1333	81.349	109.708	53.858	1.00	100.02	G
ATOM	18148	O	PRO	G1333						

ATOM	18191	C	GLU	G1338	86.552	111.515	60.689	1.00	68.84	G
ATOM	18192	O	GLU	G1338	87.437	111.821	61.489	1.00	68.84	G
ATOM	18193	N	ALA	G1339	85.349	112.065	60.682	1.00	52.81	G
ATOM	18194	CA	ALA	G1339	84.979	113.042	61.670	1.00	52.81	G
ATOM	18195	CB	ALA	G1339	83.552	113.482	61.461	1.00	32.57	G
ATOM	18196	C	ALA	G1339	85.119	112.305	62.985	1.00	52.81	G
ATOM	18197	O	ALA	G1339	85.980	112.646	63.795	1.00	52.81	G
ATOM	18198	N	LYS	G1340	84.292	111.274	63.183	1.00	38.81	G
ATOM	18199	CA	LYS	G1340	84.341	110.493	64.417	1.00	38.81	G
ATOM	18200	CB	LYS	G1340	83.207	110.902	65.377	1.00	72.23	G
ATOM	18201	CG	LYS	G1340	83.432	110.371	66.805	1.00	72.23	G
ATOM	18202	CD	LYS	G1340	82.182	110.409	67.694	1.00	72.23	G
ATOM	18203	CE	LYS	G1340	82.413	109.667	69.033	1.00	72.23	G
ATOM	18204	NZ	LYS	G1340	81.175	109.524	69.877	1.00	72.23	G
ATOM	18205	C	LYS	G1340	84.299	108.983	64.217	1.00	38.81	G
ATOM	18206	O	LYS	G1340	83.276	108.353	64.461	1.00	38.81	G
ATOM	18207	N	GLY	G1341	85.422	108.413	63.786	1.00	79.81	G
ATOM	18208	CA	GLY	G1341	85.521	106.973	63.583	1.00	79.81	G
ATOM	18209	C	GLY	G1341	84.392	106.261	62.849	1.00	79.81	G
ATOM	18210	O	GLY	G1341	83.558	106.912	62.224	1.00	79.81	G
ATOM	18211	N	PRO	G1342	84.352	104.912	62.897	1.00	38.38	G
ATOM	18212	CD	PRO	G1342	85.452	104.049	63.363	1.00	33.97	G
ATOM	18213	CA	PRO	G1342	83.336	104.084	62.247	1.00	38.38	G
ATOM	18214	CB	PRO	G1342	84.122	102.850	61.857	1.00	33.97	G
ATOM	18215	CG	PRO	G1342	84.922	102.633	63.071	1.00	33.97	G
ATOM	18216	C	PRO	G1342	82.204	103.720	63.187	1.00	38.38	G
ATOM	18217	O	PRO	G1342	81.063	103.549	62.759	1.00	38.38	G
ATOM	18218	N	GLU	G1343	82.533	103.587	64.465	1.00	57.73	G
ATOM	18219	CA	GLU	G1343	81.549	103.216	65.465	1.00	57.73	G
ATOM	18220	CB	GLU	G1343	82.238	103.041	66.813	1.00	100.07	G
ATOM	18221	CG	GLU	G1343	83.347	102.012	66.762	1.00	100.07	G
ATOM	18222	CD	GLU	G1343	83.958	101.736	68.116	1.00	100.07	G
ATOM	18223	OE1	GLU	G1343	84.495	102.683	68.732	1.00	100.07	G
ATOM	18224	OE2	GLU	G1343	83.901	100.569	68.560	1.00	100.07	G
ATOM	18225	C	GLU	G1343	80.400	104.214	65.569	1.00	57.73	G
ATOM	18226	O	GLU	G1343	79.259	103.834	65.858	1.00	57.73	G
ATOM	18227	N	ALA	G1344	80.690	105.492	65.346	1.00	46.13	G
ATOM	18228	CA	ALA	G1344	79.637	106.492	65.400	1.00	46.13	G
ATOM	18229	CB	ALA	G1344	80.232	107.890	65.395	1.00	98.70	G
ATOM	18230	C	ALA	G1344	78.836	106.244	64.131	1.00	46.13	G
ATOM	18231	O	ALA	G1344	77.611	106.166	64.150	1.00	46.13	G
ATOM	18232	N	VAL	G1345	79.554	106.098	63.025	1.00	36.62	G
ATOM	18233	CA	VAL	G1345	78.944	105.838	61.735	1.00	36.62	G
ATOM	18234	CB	VAL	G1345	80.033	105.569	60.693	1.00	22.29	G
ATOM	18235	CG1	VAL	G1345	79.437	104.903	59.460	1.00	22.29	G
ATOM	18236	CG2	VAL	G1345	80.707	106.878	60.337	1.00	22.29	G
ATOM	18237	C	VAL	G1345	77.977	104.652	61.782	1.00	36.62	G
ATOM	18238	O	VAL	G1345	76.774	104.825	61.573	1.00	36.62	G
ATOM	18239	N	GLU	G1346	78.510	103.455	62.051	1.00	42.14	G
ATOM	18240	CA	GLU	G1346	77.696	102.238	62.116	1.00	42.14	G
ATOM	18241	CB	GLU	G1346	78.356	101.176	62.997	1.00	67.01	G
ATOM	18242	CG	GLU	G1346	79.682	100.662	62.471	1.00	67.01	G
ATOM	18243	CD	GLU	G1346	80.155	99.425	63.209	1.00	67.01	G
ATOM	18244	OE1	GLU	G1346	79.422	98.413	63.187	1.00	67.01	G
ATOM	18245	OE2	GLU	G1346	81.255	99.460	63.807	1.00	67.01	G
ATOM	18246	C	GLU	G1346	76.362	102.616	62.705	1.00	42.14	G
ATOM	18247	O	GLU	G1346	75.305	102.283	62.171	1.00	42.14	G
ATOM	18248	N	ARG	G1347	76.435	103.338	63.811	1.00	33.71	G
ATOM	18249	CA	ARG	G1347	75.248	103.803	64.487	1.00	33.71	G
ATOM	18250	CB	ARG	G1347	75.622	104.706	65.664	1.00	100.07	G
ATOM	18251	CG	ARG	G1347	75.473	104.099	67.055	1.00	100.07	G
ATOM	18252	CD	ARG	G1347	75.469	105.213	68.109	1.00	100.07	G
ATOM	18253	NE	ARG	G1347	75.255	104.720	69.467	1.00	100.07	G
ATOM	18254	CZ	ARG	G1347	74.939	105.503	70.492	1.00	100.07	G
ATOM	18255	NH1	ARG	G1347	74.803	106.807	70.299	1.00	100.07	G
ATOM	18256	NH2	ARG	G1347	74.760	104.990	71.706	1.00	100.07	G
ATOM	18257	C	ARG	G1347	74.401	104.605	63.518	1.00	33.71	G
ATOM	18258	O	ARG	G1347	73.193	104.419	63.444	1.00	33.71	G
ATOM	18259	N	TYR	G1348	75.032	105.498	62.769	1.00	27.52	G
ATOM	18260	CA	TYR	G1348	74.277	106.336	61.855	1.00	27.52	G
ATOM	18261	CB	TYR	G1348	75.176	107.349	61.188	1.00	19.59	G
ATOM	18262	CG	TYR	G1348	74.356	108.319	60.404	1.00	19.59	G
ATOM	18263	CD1	TYR	G1348	73.309	108.984	61.000	1.00	19.59	G
ATOM	18264	CE1	TYR	G1348	72.551	109.893	60.298	1.00	19.59	G
ATOM	18265	CD2	TYR	G1348	74.630	108.582	59.085	1.00	19.59	G
ATOM	18266	CE2	TYR	G1348	73.885	109.493	58.368	1.00	19.59	G
ATOM	18267	CZ	TYR	G1348	72.849	110.156	58.981	1.00	19.59	G
ATOM	18268	OH	TYR	G1348	72.142	111.127	58.294	1.00	19.59	G
ATOM	18269	C	TYR	G1348	73.437	105.647	60.776	1.00	27.52	G
ATOM	18270	O	TYR	G1348	72.526	106.267	60.199	1.00	27.52	G
ATOM	18271	N	LEU	G1349	73.755	104.388	60.476	1.00	24.73	G
ATOM	18272	CA	LEU	G1349	72.977	103.636	59.499	1.00	24.73	G
ATOM	18273	CB	LEU	G1349	73.855	102.627	58.748	1.00	12.05	G
ATOM	18274	CG	LEU	G1349	74.913	103.183	57.782	1.00	12.05	G

ATOM	18275	CD1	LEU	G1349	74.361	104.390	57.032	1.00	12.05	G
ATOM	18276	CD2	LEU	G1349	76.160	103.574	58.558	1.00	12.05	G
ATOM	18277	C	LEU	G1349	71.875	102.910	60.274	1.00	24.73	G
ATOM	18278	O	LEU	G1349	70.742	103.392	60.340	1.00	24.73	G
ATOM	18279	N	VAL	G1350	72.225	101.773	60.881	1.00	18.94	G
ATOM	18280	CA	VAL	G1350	71.276	100.972	61.657	1.00	18.94	G
ATOM	18281	CB	VAL	G1350	71.919	100.359	62.914	1.00	31.45	G
ATOM	18282	CG1	VAL	G1350	70.840	99.943	63.899	1.00	31.45	G
ATOM	18283	CG2	VAL	G1350	72.757	99.158	62.537	1.00	31.45	G
ATOM	18284	C	VAL	G1350	70.114	101.807	62.117	1.00	18.94	G
ATOM	18285	O	VAL	G1350	68.969	101.435	61.922	1.00	18.94	G
ATOM	18286	N	ASP	G1351	70.410	102.935	62.744	1.00	46.85	G
ATOM	18287	CA	ASP	G1351	69.352	103.792	63.209	1.00	46.85	G
ATOM	18288	CB	ASP	G1351	69.904	104.895	64.101	1.00	63.80	G
ATOM	18289	CG	ASP	G1351	70.402	104.370	65.431	1.00	63.80	G
ATOM	18290	OD1	ASP	G1351	69.677	103.580	66.081	1.00	63.80	G
ATOM	18291	OD2	ASP	G1351	71.516	104.758	65.836	1.00	63.80	G
ATOM	18292	C	ASP	G1351	68.649	104.393	62.013	1.00	46.85	G
ATOM	18293	O	ASP	G1351	67.459	104.166	61.811	1.00	46.85	G
ATOM	18294	N	GLU	G1352	69.396	105.133	61.201	1.00	22.79	G
ATOM	18295	CA	GLU	G1352	68.835	105.804	60.022	1.00	22.79	G
ATOM	18296	CB	GLU	G1352	69.959	106.592	59.338	1.00	53.67	G
ATOM	18297	CG	GLU	G1352	69.509	107.768	58.491	1.00	53.67	G
ATOM	18298	CD	GLU	G1352	68.800	108.829	59.292	1.00	53.67	G
ATOM	18299	OE1	GLU	G1352	69.364	109.288	60.304	1.00	53.67	G
ATOM	18300	OE2	GLU	G1352	67.680	109.209	58.900	1.00	53.67	G
ATOM	18301	C	GLU	G1352	68.130	104.842	59.021	1.00	22.79	G
ATOM	18302	O	GLU	G1352	67.014	105.116	58.521	1.00	22.79	G
ATOM	18303	N	ILE	G1353	68.798	103.727	58.732	1.00	33.46	G
ATOM	18304	CA	ILE	G1353	68.276	102.701	57.842	1.00	33.46	G
ATOM	18305	CB	ILE	G1353	69.126	101.433	57.937	1.00	60.92	G
ATOM	18306	CG2	ILE	G1353	68.356	100.229	57.416	1.00	60.92	G
ATOM	18307	CG1	ILE	G1353	70.415	101.631	57.164	1.00	60.92	G
ATOM	18308	CD	ILE	G1353	70.206	101.639	55.690	1.00	60.92	G
ATOM	18309	C	ILE	G1353	66.868	102.340	58.265	1.00	33.46	G
ATOM	18310	O	ILE	G1353	66.075	101.867	57.459	1.00	33.46	G
ATOM	18311	N	GLN	G1354	66.568	102.563	59.542	1.00	24.60	G
ATOM	18312	CA	GLN	G1354	65.273	102.222	60.107	1.00	24.60	G
ATOM	18313	CB	GLN	G1354	65.442	101.855	61.572	1.00	23.11	G
ATOM	18314	CG	GLN	G1354	64.459	100.817	62.050	1.00	23.11	G
ATOM	18315	CD	GLN	G1354	65.027	99.412	62.053	1.00	23.11	G
ATOM	18316	OE1								

ATOM	18359	N	ALA	G1359	58.768	104.385	60.201	1.00	35.35	G
ATOM	18360	CA	ALA	G1359	57.548	105.168	60.039	1.00	35.35	G
ATOM	18361	CB	ALA	G1359	57.857	106.449	59.290	1.00	5.07	G
ATOM	18362	C	ALA	G1359	56.421	104.376	59.325	1.00	35.35	G
ATOM	18363	O	ALA	G1359	55.670	104.931	58.517	1.00	35.35	G
ATOM	18364	N	GLN	G1360	56.324	103.079	59.642	1.00	55.78	G
ATOM	18365	CA	GLN	G1360	55.306	102.153	59.111	1.00	55.78	G
ATOM	18366	CB	GLN	G1360	55.011	102.459	57.634	1.00	60.86	G
ATOM	18367	CG	GLN	G1360	56.242	102.658	56.767	1.00	60.86	G
ATOM	18368	CD	GLN	G1360	56.293	104.028	56.095	1.00	60.86	G
ATOM	18369	OE1	GLN	G1360	55.413	104.388	55.311	1.00	60.86	G
ATOM	18370	NE2	GLN	G1360	57.335	104.794	56.398	1.00	60.86	G
ATOM	18371	C	GLN	G1360	55.646	100.649	59.312	1.00	55.78	G
ATOM	18372	O	GLN	G1360	54.895	99.928	59.982	1.00	55.78	G
ATOM	18373	N	GLY	G1361	56.775	100.191	58.755	1.00	66.25	G
ATOM	18374	CA	GLY	G1361	57.200	98.794	58.878	1.00	66.25	G
ATOM	18375	C	GLY	G1361	57.644	98.405	60.278	1.00	66.25	G
ATOM	18376	O	GLY	G1361	57.312	99.102	61.233	1.00	66.25	G
ATOM	18377	N	VAL	G1362	58.378	97.301	60.421	1.00	26.34	G
ATOM	18378	CA	VAL	G1362	58.847	96.852	61.748	1.00	26.34	G
ATOM	18379	CB	VAL	G1362	57.765	96.082	62.514	1.00	51.84	G
ATOM	18380	CG1	VAL	G1362	58.077	96.098	64.005	1.00	51.84	G
ATOM	18381	CG2	VAL	G1362	56.398	96.652	62.219	1.00	51.84	G
ATOM	18382	C	VAL	G1362	60.037	95.893	61.699	1.00	26.34	G
ATOM	18383	O	VAL	G1362	60.156	95.026	62.563	1.00	26.34	G
ATOM	18384	N	ALA	G1363	60.906	96.041	60.695	1.00	53.76	G
ATOM	18385	CA	ALA	G1363	62.072	95.165	60.529	1.00	53.76	G
ATOM	18386	CB	ALA	G1363	63.171	95.862	59.705	1.00	5.07	G
ATOM	18387	C	ALA	G1363	62.608	94.753	61.883	1.00	53.76	G
ATOM	18388	O	ALA	G1363	62.649	95.549	62.817	1.00	53.76	G
ATOM	18389	N	ALA	G1364	62.989	93.492	61.995	1.00	67.41	G
ATOM	18390	CA	ALA	G1364	63.515	92.986	63.249	1.00	67.41	G
ATOM	18391	CB	ALA	G1364	63.611	91.458	63.205	1.00	70.33	G
ATOM	18392	C	ALA	G1364	64.880	93.596	63.522	1.00	67.41	G
ATOM	18393	O	ALA	G1364	65.844	92.876	63.782	1.00	67.41	G
ATOM	18394	N	HIS	G1365	64.954	94.925	63.462	1.00	37.62	G
ATOM	18395	CA	HIS	G1365	66.203	95.646	63.714	1.00	37.62	G
ATOM	18396	CB	HIS	G1365	65.906	97.094	64.152	1.00	100.05	G
ATOM	18397	CG	HIS	G1365	66.887	97.662	65.136	1.00	100.05	G
ATOM	18398	CD2	HIS	G1365	66.706	98.485	66.196	1.00	100.05	G
ATOM	18399	ND1	HIS	G1365	68.242	97.419	65.071	1.00	100.05	G
ATOM	18400	CE1	HIS	G1365	68.852	98.066	66.049	1.00	100.05	G
ATOM	18401	NE2	HIS	G1365	67.942	98.721	66.747	1.00	100.05	G
ATOM	18402	C	HIS	G1365	66.923	94.885	64.797	1.00	37.62	G
ATOM	18403	O	HIS	G1365	68.153	94.931	64.891	1.00	37.62	G
ATOM	18404	N	ASP	G1366	66.114	94.179	65.587	1.00	68.63	G
ATOM	18405	CA	ASP	G1366	66.550	93.330	66.679	1.00	68.63	G
ATOM	18406	CB	ASP	G1366	65.642	92.110	66.760	1.00	100.00	G
ATOM	18407	CG	ASP	G1366	65.844	91.322	68.029	1.00	100.00	G
ATOM	18408	OD1	ASP	G1366	66.944	90.764	68.220	1.00	100.00	G
ATOM	18409	OD2	ASP	G1366	64.899	91.264	68.842	1.00	100.00	G
ATOM	18410	C	ASP	G1366	67.979	92.895	66.430	1.00	68.63	G
ATOM	18411	O	ASP	G1366	68.777	92.823	67.365	1.00	68.63	G
ATOM	18412	N	LYS	G1367	68.283	92.594	65.166	1.00	32.64	G
ATOM	18413	CA	LYS	G1367	69.626	92.209	64.722	1.00	32.64	G
ATOM	18414	CB	LYS	G1367	69.756	90.673	64.632	1.00	35.04	G
ATOM	18415	CG	LYS	G1367	69.185	89.877	65.835	1.00	35.04	G
ATOM	18416	CD	LYS	G1367	69.665	88.389	65.896	1.00	35.04	G
ATOM	18417	CE	LYS	G1367	69.180	87.487	64.716	1.00	35.04	G
ATOM	18418	NZ	LYS	G1367	70.118	86.350	64.363	1.00	35.04	G
ATOM	18419	C	LYS	G1367	69.732	92.856	63.329	1.00	32.64	G
ATOM	18420	O	LYS	G1367	69.912	94.074	63.208	1.00	32.64	G
ATOM	18421	N	HIS	G1368	69.595	92.013	62.306	1.00	45.78	G
ATOM	18422	CA	HIS	G1368	69.598	92.354	60.880	1.00	45.78	G
ATOM	18423	CB	HIS	G1368	68.161	92.585	60.463	1.00	12.69	G
ATOM	18424	CG	HIS	G1368	67.303	91.413	60.772	1.00	12.69	G
ATOM	18425	CD2	HIS	G1368	66.231	91.276	61.583	1.00	12.69	G
ATOM	18426	ND1	HIS	G1368	67.634	90.140	60.358	1.00	12.69	G
ATOM	18427	CE1	HIS	G1368	66.813	89.266	60.912	1.00	12.69	G
ATOM	18428	NE2	HIS	G1368	65.951	89.930	61.661	1.00	12.69	G
ATOM	18429	C	HIS	G1368	70.478	93.436	60.308	1.00	45.78	G
ATOM	18430	O	HIS	G1368	71.632	93.180	59.962	1.00	45.78	G
ATOM	18431	N	ILE	G1369	69.917	94.629	60.148	1.00	36.62	G
ATOM	18432	CA	ILE	G1369	70.668	95.765	59.620	1.00	36.62	G
ATOM	18433	CB	ILE	G1369	70.032	97.074	60.110	1.00	27.62	G
ATOM	18434	CG2	ILE	G1369	70.974	98.223	59.926	1.00	27.62	G
ATOM	18435	CG1	ILE	G1369	68.739	97.311	59.345	1.00	27.62	G
ATOM	18436	CD	ILE	G1369	67.775	98.166	60.078	1.00	27.62	G
ATOM	18437	C	ILE	G1369	72.134	95.668	60.063	1.00	36.62	G
ATOM	18438	O	ILE	G1369	73.054	95.797	59.248	1.00	36.62	G
ATOM	18439	N	GLU	G1370	72.335	95.413	61.355	1.00	45.01	G
ATOM	18440	CA	GLU	G1370	73.672	95.260	61.906	1.00	45.01	G
ATOM	18441	CB	GLU	G1370	73.607	94.569	63.276	1.00	51.14	G
ATOM	18442	CG	GLU	G1370	72.456	95.052	64.190	1.00	51.14	G

ATOM	18443	CD	GLU	G1370	72.916	95.729	65.497	1.00	51.14	G
ATOM	18444	OE1	GLU	G1370	73.561	95.073	66.364	1.00	51.14	G
ATOM	18445	OE2	GLU	G1370	72.613	96.933	65.655	1.00	51.14	G
ATOM	18446	C	GLU	G1370	74.425	94.391	60.901	1.00	45.01	G
ATOM	18447	O	GLU	G1370	75.259	94.896	60.156	1.00	45.01	G
ATOM	18448	N	ILE	G1371	74.100	93.098	60.858	1.00	36.41	G
ATOM	18449	CA	ILE	G1371	74.739	92.163	59.926	1.00	36.41	G
ATOM	18450	CB	ILE	G1371	73.794	91.043	59.462	1.00	5.07	G
ATOM	18451	CG2	ILE	G1371	74.418	90.314	58.318	1.00	5.07	G
ATOM	18452	CG1	ILE	G1371	73.544	90.037	60.577	1.00	5.07	G
ATOM	18453	CD	ILE	G1371	74.794	89.299	61.011	1.00	5.07	G
ATOM	18454	C	ILE	G1371	75.213	92.848	58.657	1.00	36.41	G
ATOM	18455	O	ILE	G1371	76.397	92.783	58.306	1.00	36.41	G
ATOM	18456	N	VAL	G1372	74.284	93.486	57.953	1.00	30.35	G
ATOM	18457	CA	VAL	G1372	74.668	94.157	56.727	1.00	30.35	G
ATOM	18458	CB	VAL	G1372	73.435	94.722	55.970	1.00	18.98	G
ATOM	18459	CG1	VAL	G1372	73.838	95.850	55.018	1.00	18.98	G
ATOM	18460	CG2	VAL	G1372	72.807	93.615	55.154	1.00	18.98	G
ATOM	18461	C	VAL	G1372	75.686	95.256	56.998	1.00	30.35	G
ATOM	18462	O	VAL	G1372	76.726	95.297	56.348	1.00	30.35	G
ATOM	18463	N	VAL	G1373	75.406	96.132	57.962	1.00	32.36	G
ATOM	18464	CA	VAL	G1373	76.337	97.219	58.274	1.00	32.36	G
ATOM	18465	CB	VAL	G1373	75.956	97.973	59.582	1.00	19.30	G
ATOM	18466	CG1	VAL	G1373	77.206	98.580	60.230	1.00	19.30	G
ATOM	18467	CG2	VAL	G1373	74.955	99.090	59.264	1.00	19.30	G
ATOM	18468	C	VAL	G1373	77.754	96.690	58.404	1.00	32.36	G
ATOM	18469	O	VAL	G1373	78.674	97.215	57.779	1.00	32.36	G
ATOM	18470	N	ARG	G1374	77.940	95.646	59.203	1.00	30.31	G
ATOM	18471	CA	ARG	G1374	79.278	95.100	59.353	1.00	30.31	G
ATOM	18472	CB	ARG	G1374	79.265	93.805	60.157	1.00	35.80	G
ATOM	18473	CG	ARG	G1374	80.651	93.390	60.552	1.00	35.80	G
ATOM	18474	CD	ARG	G1374	80.758	91.913	60.635	1.00	35.80	G
ATOM	18475	NE	ARG	G1374	80.234	91.405	61.886	1.00	35.80	G
ATOM	18476	CZ	ARG	G1374	80.157	90.112	62.183	1.00	35.80	G
ATOM	18477	NH1	ARG	G1374	80.565	89.191	61.315	1.00	35.80	G
ATOM	18478	NH2	ARG	G1374	79.685	89.734	63.363	1.00	35.80	G
ATOM	18479	C	ARG	G1374	79.813	94.830	57.951	1.00	30.31	G
ATOM	18480	O	ARG	G1374	80.875	95.324	57.563	1.00	30.31	G
ATOM	18481	N	GLN	G1375	79.060	94.052	57.188	1.00	37.70	G
ATOM	18482	CA	GLN	G1375	79.445	93.747	55.825	1.00	37.70	G
ATOM	18483	CB	GLN	G1375	78.274	93.096	55.107	1.00	49.34	G
ATOM	18484	CG	GLN	G1375	78.090	91.735	55.624	1.00	49.34	G
ATOM	18485	CD	GLN	G1375	79.426	91.058	55.691	1.00	49.34	G
ATOM	18486	OE1	GLN	G1375	80.017	90.747	54.654	1.00	49.34	G
ATOM	18487	NE2	GLN	G1375	79.937	90.856	56.906	1.00	49.34	G
ATOM	18488	C	GLN	G1375	79.888	94.991	55.073	1.00	37.70	G
ATOM	18489	O	GLN	G1375	80.903	94.990	54.366	1.00	37.70	G
ATOM	18490	N	MET	G1376	79.114	96.054	55.240	1.00	42.35	G
ATOM	18491	CA	MET	G1376	79.404	97.303	54.582	1.00	42.35	G
ATOM	18492	CB	MET	G1376	78.471	98.383	55.107	1.00	42.60	G
ATOM	18493	CG	MET	G1376	78.217	99.512	54.141	1.00	42.60	G
ATOM	18494	SD	MET	G1376	76.525	100.131	54.332	1.00	42.60	G
ATOM	18495	CE	MET	G1376	75.668	99.034	53.204	1.00	42.60	G
ATOM	18496	C	MET	G1376	80.853	97.649	54.854	1.00	42.35	G
ATOM	18497	O	MET	G1376	81.663	97.650	53.929	1.00	42.35	G
ATOM	18498	N	LEU	G1377	81.190	97.900	56.120	1.00	52.66	G
ATOM	18499	CA	LEU	G1377	82.564	98.254	56.480	1.00	52.66	G
ATOM	18500	CB	LEU	G1377	82.575	99.349	57.567	1.00	40.09	G
ATOM	18501	CG	LEU	G1377	81.825	99.253	58.902	1.00	40.09	G
ATOM	18502	CD1	LEU	G1377	80.354	99.285	58.638	1.00	40.09	G
ATOM	18503	CD2	LEU	G1377	82.207	97.995	59.671	1.00	40.09	G
ATOM	18504	C	LEU	G1377	83.451	97.072	56.889	1.00	52.66	G
ATOM	18505	O	LEU	G1377	84.036	97.035	57.972	1.00	52.66	G
ATOM	18506	N	ALA	G1378	83.554	96.105	55.994	1.00	61.12	G
ATOM	18507	CA	ALA	G1378	84.375	94.943	56.247	1.00	61.12	G
ATOM	18508	CB	ALA	G1378	83.674	93.697	55.747	1.00	30.08	G
ATOM	18509	C	ALA	G1378	85.667	95.146	55.482	1.00	61.12	G
ATOM	18510	O	ALA	G1378	86.165	94.212	54.861	1.00	61.12	G
ATOM	18511	N	TYR	G1379	86.208	96.361	55.500	1.00	99.86	G
ATOM	18512	CA	TYR	G1379	87.434	96.619	54.753	1.00	99.86	G
ATOM	18513	CB	TYR	G1379	87.083	97.128	53.361	1.00	58.85	G
ATOM	18514	CG	TYR	G1379	86.157	96.194	52.654	1.00	58.85	G
ATOM	18515	CD1	TYR	G1379	84.795	96.184	52.944	1.00	58.85	G
ATOM	18516	CE1	TYR	G1379	83.949	95.230	52.387	1.00	58.85	G
ATOM	18517	CD2	TYR	G1379	86.650	95.235	51.782	1.00	58.85	G
ATOM	18518	CE2	TYR	G1379	85.817	94.279	51.217	1.00	58.85	G
ATOM	18519	CZ	TYR	G1379	84.470	94.272	51.524	1.00	58.85	G
ATOM	18520	OH	TYR	G1379	83.655	93.296	50.985	1.00	58.85	G
ATOM	18521	C	TYR	G1379	88.428	97.567	55.392	1.00	99.86	G
ATOM	18522	O	TYR	G1379	88.097	98.312	56.314	1.00	99.86	G
ATOM	18523	N	VAL	G1380	89.651	97.536	54.867	1.00	45.10	G
ATOM	18524	CA	VAL	G1380	90.745	98.372	55.354	1.00	45.10	G
ATOM	18525	CB	VAL	G1380	91.377	97.733	56.597	1.00	36.73	G
ATOM	18526	CG1	VAL	G1380	90.598	98.113	57.834	1.00	36.73	G

ATOM	18527	CG2	VAL	G1380	91.381	96.222	56.441	1.00	36.73	G
ATOM	18528	C	VAL	G1380	91.835	98.562	54.289	1.00	45.10	G
ATOM	18529	O	VAL	G1380	92.171	97.615	53.571	1.00	45.10	G
ATOM	18530	N	GLU	G1381	92.374	99.781	54.187	1.00	91.74	G
ATOM	18531	CA	GLU	G1381	93.443	100.077	53.228	1.00	91.74	G
ATOM	18532	CB	GLU	G1381	93.213	101.427	52.534	1.00	66.02	G
ATOM	18533	CG	GLU	G1381	93.954	102.588	53.160	1.00	66.02	G
ATOM	18534	CD	GLU	G1381	93.599	102.772	54.619	1.00	66.02	G
ATOM	18535	OE1	GLU	G1381	92.435	103.120	54.902	1.00	66.02	G
ATOM	18536	OE2	GLU	G1381	94.484	102.561	55.478	1.00	66.02	G
ATOM	18537	C	GLU	G1381	94.786	100.091	53.964	1.00	91.74	G
ATOM	18538	O	GLU	G1381	94.826	99.969	55.189	1.00	91.74	G
ATOM	18539	N	VAL	G1382	95.882	100.266	53.233	1.00	66.97	G
ATOM	18540	CA	VAL	G1382	97.197	100.239	53.868	1.00	66.97	G
ATOM	18541	CB	VAL	G1382	98.120	99.227	53.151	1.00	75.18	G
ATOM	18542	CG1	VAL	G1382	99.539	99.336	53.688	1.00	75.18	G
ATOM	18543	CG2	VAL	G1382	97.593	97.815	53.346	1.00	75.18	G
ATOM	18544	C	VAL	G1382	97.981	101.538	54.016	1.00	66.97	G
ATOM	18545	O	VAL	G1382	97.973	102.402	53.139	1.00	66.97	G
ATOM	18546	N	THR	G1383	98.662	101.645	55.153	1.00	60.93	G
ATOM	18547	CA	THR	G1383	99.532	102.769	55.464	1.00	60.93	G
ATOM	18548	CB	THR	G1383	98.827	103.849	56.307	1.00	37.91	G
ATOM	18549	OG1	THR	G1383	98.010	103.222	57.298	1.00	37.91	G
ATOM	18550	CG2	THR	G1383	97.980	104.760	55.412	1.00	37.91	G
ATOM	18551	C	THR	G1383	100.693	102.150	56.240	1.00	60.93	G
ATOM	18552	O	THR	G1383	100.523	101.678	57.370	1.00	60.93	G
ATOM	18553	N	ASP	G1384	101.863	102.152	55.593	1.00	100.07	G
ATOM	18554	CA	ASP	G1384	103.124	101.574	56.086	1.00	100.07	G
ATOM	18555	CB	ASP	G1384	103.362	101.854	57.576	1.00	100.07	G
ATOM	18556	CG	ASP	G1384	104.814	101.597	57.993	1.00	100.07	G
ATOM	18557	OD1	ASP	G1384	105.416	100.616	57.494	1.00	100.07	G
ATOM	18558	OD2	ASP	G1384	105.348	102.373	58.825	1.00	100.07	G
ATOM	18559	C	ASP	G1384	103.025	100.068	55.861	1.00	100.07	G
ATOM	18560	O	ASP	G1384	102.878	99.288	56.805	1.00	100.07	G
ATOM	18561	N	PRO	G1385	103.091	99.646	54.590	1.00	100.07	G
ATOM	18562	CD	PRO	G1385	103.195	100.529	53.416	1.00	100.07	G
ATOM	18563	CA	PRO	G1385	103.008	98.242	54.175	1.00	100.07	G
ATOM	18564	CB	PRO	G1385	103.099	98.329	52.647	1.00	100.07	G
ATOM	18565	CG	PRO	G1385	103.813	99.621	52.404	1.00	100.07	G
ATOM	18566	C	PRO	G1385	103.994	97.227	54.770	1.00	100.07	G
ATOM	18567	O	PRO	G1385	105.114	97.558	55.159	1.00	100.07	G
ATOM	18568	N	GLY	G1386	103.528	95.984	54.833	1.00	100.07	G
ATOM	18569	CA	GLY	G1386	104.295	94.863	55.345	1.00	100.07	G
ATOM	18570	C	GLY	G1386	103.585	93.655	54.758	1.00	100.07	G
ATOM	18571	O	GLY	G1386	102.357	93.654	54.692	1.00	100.07	G
ATOM	18572	N	ASP	G1387	104.334	92.644	54.322	1.00	55.63	G
ATOM	18573	CA	ASP	G1387	103.762	91.437	53.709	1.00	55.63	G
ATOM	18574	CB	ASP	G1387	102.444	91.034	54.383	1.00	100.07	G
ATOM	18575	CG	ASP	G1387	102.617	89.888	55.365	1.00	100.07	G
ATOM	18576	OD1	ASP	G1387	102.951	88.770	54.912	1.00	100.07	G
ATOM	18577	OD2	ASP	G1387	102.424	90.101	56.585	1.00	100.07	G
ATOM	18578	C	ASP	G1387	103.533	91.637	52.217	1.00	55.63	G
ATOM	18579	O	ASP	G1387	102.592	91.092	51.640	1.00	55.63	G
ATOM	18580	N	SER	G1388	104.412	92.432	51.613	1.00	100.07	G
ATOM	18581	CA	SER	G1388	104.387	92.747	50.186	1.00	100.07	G
ATOM	18582	CB	SER	G1388	104.661	91.469	49.374	1.00	79.02	G
ATOM	18583	OG	SER	G1388	103.852	90.379	49.791	1.00	79.02	G
ATOM	18584	C	SER	G1388	103.138	93.461	49.643	1.00	100.07	G
ATOM	18585	O	SER	G1388	102.782	93.290	48.471	1.00	100.07	G
ATOM	18586	N	PRO	G1389	102.475	94.293	50.471	1.00	100.07	G
ATOM	18587	CD	PRO	G1389	102.770	94.635	51.876	1.00	80.29	G
ATOM	18588	CA	PRO	G1389	101.275	95.003	50.013	1.00	100.07	G
ATOM	18589	CB	PRO	G1389	100.554	95.307	51.312	1.00	80.29	G
ATOM	18590	CG	PRO	G1389	101.697	95.666	52.206	1.00	80.29	G
ATOM	18591	C	PRO	G1389	101.622	96.274	49.236	1.00	100.07	G
ATOM	18592	O	PRO	G1389	102.374	96.226	48.258	1.00	100.07	G
ATOM	18593	N	LEU	G1390	101.071	97.406	49.673	1.00	99.84	G
ATOM	18594	CA	LEU	G1390	101.319	98.689	49.014	1.00	99.84	G
ATOM	18595	CB	LEU	G1390	100.497	98.787	47.717	1.00	100.07	G
ATOM	18596	CG	LEU	G1390	100.561	97.706	46.624	1.00	100.07	G
ATOM	18597	CD1	LEU	G1390	99.685	96.511	47.007	1.00	100.07	G
ATOM	18598	CD2	LEU	G1390	100.076	98.299	45.299	1.00	100.07	G
ATOM	18599	C	LEU	G1390	100.973	99.883	49.918	1.00	99.84	G
ATOM	18600	O	LEU	G1390	101.035	99.794	51.146	1.00	99.84	G
ATOM	18601	N	LEU	G1391	100.625	101.003	49.288	1.00	98.88	G
ATOM	18602	CA	LEU	G1391	100.234	102.217	49.998	1.00	98.88	G
ATOM	18603	CB	LEU	G1391	101.279	103.322	49.799	1.00	96.72	G
ATOM	18604	CG	LEU	G1391	101.204	104.616	50.633	1.00	96.72	G
ATOM	18605	CD1	LEU	G1391	100.336	105.658	49.950	1.00	96.72	G
ATOM	18606	CD2	LEU	G1391	100.690	104.296	52.029	1.00	96.72	G
ATOM	18607	C	LEU	G1391	98.881	102.643	49.430	1.00	98.88	G
ATOM	18608	O	LEU	G1391	98.733	103.732	48.874	1.00	98.88	G
ATOM	18609	N	GLU	G1392	97.908	101.744	49.567	1.00	99.92	G
ATOM	18610	CA	GLU	G1392	96.532	101.934	49.101	1.00	99.92	G

ATOM	18611	CB	GLU	G1392	96.509	102.443	47.649	1.00100.07	G
ATOM	18612	CG	GLU	G1392	95.188	103.112	47.227	1.00100.07	G
ATOM	18613	CD	GLU	G1392	95.229	103.708	45.811	1.00100.07	G
ATOM	18614	OE1	GLU	G1392	95.264	102.933	44.827	1.00100.07	G
ATOM	18615	OE2	GLU	G1392	95.228	104.956	45.682	1.00100.07	G
ATOM	18616	C	GLU	G1392	95.866	100.559	49.188	1.00 99.92	G
ATOM	18617	O	GLU	G1392	95.494	99.963	48.172	1.00 99.92	G
ATOM	18618	N	GLY	G1393	95.735	100.056	50.412	1.00100.07	G
ATOM	18619	CA	GLY	G1393	95.135	98.751	50.615	1.00100.07	G
ATOM	18620	C	GLY	G1393	93.640	98.707	50.356	1.00100.07	G
ATOM	18621	O	GLY	G1393	92.967	99.738	50.351	1.00100.07	G
ATOM	18622	N	GLN	G1394	93.128	97.498	50.142	1.00 99.85	G
ATOM	18623	CA	GLN	G1394	91.710	97.244	49.880	1.00 99.85	G
ATOM	18624	CB	GLN	G1394	91.356	97.647	48.438	1.00100.07	G
ATOM	18625	CG	GLN	G1394	91.198	99.164	48.208	1.00100.07	G
ATOM	18626	CD	GLN	G1394	91.396	99.594	46.744	1.00100.07	G
ATOM	18627	OE1	GLN	G1394	92.519	99.563	46.214	1.00100.07	G
ATOM	18628	NE2	GLN	G1394	90.305	99.997	46.088	1.00100.07	G
ATOM	18629	C	GLN	G1394	91.526	95.736	50.077	1.00 99.85	G
ATOM	18630	O	GLN	G1394	91.261	95.002	49.122	1.00 99.85	G
ATOM	18631	N	VAL	G1395	91.671	95.288	51.326	1.00100.07	G
ATOM	18632	CA	VAL	G1395	91.581	93.866	51.674	1.00100.07	G
ATOM	18633	CB	VAL	G1395	92.961	93.344	52.170	1.00 56.37	G
ATOM	18634	CG1	VAL	G1395	93.057	91.836	51.988	1.00 56.37	G
ATOM	18635	CG2	VAL	G1395	94.083	94.054	51.435	1.00 56.37	G
ATOM	18636	C	VAL	G1395	90.558	93.539	52.766	1.00100.07	G
ATOM	18637	O	VAL	G1395	90.046	94.434	53.446	1.00100.07	G
ATOM	18638	N	LEU	G1396	90.269	92.247	52.924	1.00 76.34	G
ATOM	18639	CA	LEU	G1396	89.342	91.792	53.956	1.00 76.34	G
ATOM	18640	CB	LEU	G1396	89.113	90.277	53.886	1.00100.07	G
ATOM	18641	CG	LEU	G1396	88.165	89.672	52.844	1.00100.07	G
ATOM	18642	CD1	LEU	G1396	87.936	88.194	53.177	1.00100.07	G
ATOM	18643	CD2	LEU	G1396	86.834	90.416	52.850	1.00100.07	G
ATOM	18644	C	LEU	G1396	89.984	92.127	55.290	1.00 76.34	G
ATOM	18645	O	LEU	G1396	91.069	91.637	55.604	1.00 76.34	G
ATOM	18646	N	GLU	G1397	89.309	92.955	56.075	1.00 50.50	G
ATOM	18647	CA	GLU	G1397	89.846	93.369	57.360	1.00 50.50	G
ATOM	18648	CB	GLU	G1397	88.792	94.104	58.167	1.00100.07	G
ATOM	18649	CG	GLU	G1397	89.295	94.541	59.513	1.00100.07	G
ATOM	18650	CD	GLU	G1397	88.190	95.096	60.359	1.00100.07	G
ATOM	18651	OE1	GLU	G1397	87.659	96.169	60.005	1.00100.07	G
ATOM	18652	OE2	GLU	G1397	87.840	94.453	61.370	1.00100.07	G
ATOM	18653	C	GLU	G1397	90.428	92.247	58.203	1.00 50.50	G
ATOM	18654								

ATOM	18695	CB	GLU	G1402	95.680	87.508	59.738	1.00100.07	G
ATOM	18696	CG	GLU	G1402	95.712	86.145	60.391	1.00100.07	G
ATOM	18697	CD	GLU	G1402	95.416	86.209	61.886	1.00100.07	G
ATOM	18698	OE1	GLU	G1402	94.333	86.710	62.273	1.00100.07	G
ATOM	18699	OE2	GLU	G1402	96.277	85.757	62.674	1.00100.07	G
ATOM	18700	C	GLU	G1402	97.486	89.113	60.464	1.00100.07	G
ATOM	18701	O	GLU	G1402	98.439	88.522	60.974	1.00100.07	G
ATOM	18702	N	ALA	G1403	97.626	90.193	59.699	1.00100.07	G
ATOM	18703	CA	ALA	G1403	98.935	90.767	59.406	1.00100.07	G
ATOM	18704	CB	ALA	G1403	98.841	91.732	58.222	1.00 61.84	G
ATOM	18705	C	ALA	G1403	99.451	91.497	60.644	1.00100.07	G
ATOM	18706	O	ALA	G1403	100.153	92.505	60.537	1.00100.07	G
ATOM	18707	N	LEU	G1404	99.073	90.981	61.812	1.00 81.53	G
ATOM	18708	CA	LEU	G1404	99.478	91.516	63.112	1.00 81.53	G
ATOM	18709	CB	LEU	G1404	98.525	92.615	63.587	1.00100.07	G
ATOM	18710	CG	LEU	G1404	98.370	93.892	62.762	1.00100.07	G
ATOM	18711	CD1	LEU	G1404	97.426	94.837	63.485	1.00100.07	G
ATOM	18712	CD2	LEU	G1404	99.714	94.554	62.563	1.00100.07	G
ATOM	18713	C	LEU	G1404	99.377	90.337	64.060	1.00 81.53	G
ATOM	18714	O	LEU	G1404	100.104	90.231	65.053	1.00 81.53	G
ATOM	18715	N	ASN	G1405	98.447	89.450	63.725	1.00100.07	G
ATOM	18716	CA	ASN	G1405	98.210	88.250	64.504	1.00100.07	G
ATOM	18717	CB	ASN	G1405	96.745	87.802	64.376	1.00100.07	G
ATOM	18718	CG	ASN	G1405	95.755	88.970	64.372	1.00100.07	G
ATOM	18719	OD1	ASN	G1405	95.742	89.807	65.284	1.00100.07	G
ATOM	18720	ND2	ASN	G1405	94.909	89.017	63.345	1.00100.07	G
ATOM	18721	C	ASN	G1405	99.135	87.167	63.944	1.00100.07	G
ATOM	18722	O	ASN	G1405	99.217	86.060	64.484	1.00100.07	G
ATOM	18723	N	GLU	G1406	99.827	87.497	62.854	1.00 92.09	G
ATOM	18724	CA	GLU	G1406	100.748	86.555	62.227	1.00 92.09	G
ATOM	18725	CB	GLU	G1406	100.271	86.195	60.820	1.00100.07	G
ATOM	18726	CG	GLU	G1406	101.105	85.099	60.160	1.00100.07	G
ATOM	18727	CD	GLU	G1406	101.235	83.848	61.025	1.00100.07	G
ATOM	18728	OE1	GLU	G1406	101.940	83.895	62.062	1.00100.07	G
ATOM	18729	OE2	GLU	G1406	100.624	82.818	60.662	1.00100.07	G
ATOM	18730	C	GLU	G1406	102.181	87.079	62.161	1.00 92.09	G
ATOM	18731	O	GLU	G1406	103.112	86.330	61.859	1.00 92.09	G
ATOM	18732	N	ARG	G1407	102.354	88.364	62.445	1.00100.07	G
ATOM	18733	CA	ARG	G1407	103.681	88.964	62.429	1.00100.07	G
ATOM	18734	CB	ARG	G1407	103.708	90.155	61.473	1.00100.07	G
ATOM	18735	CG	ARG	G1407	103.663	89.731	60.004	1.00100.07	G
ATOM	18736	CD	ARG	G1407	104.863	88.842	59.659	1.00100.07	G
ATOM	18737	NE	ARG	G1407	104.914	88.470	58.246	1.00100.07	G
ATOM	18738								

ATOM	18779	NZ	LYS	G1413	106.197	98.960	67.353	1.00100.07	G
ATOM	18780	C	LYS	G1413	107.393	93.308	64.785	1.00100.07	G
ATOM	18781	O	LYS	G1413	108.461	92.901	64.328	1.00100.07	G
ATOM	18782	N	VAL	G1414	106.611	94.180	64.144	1.00100.07	G
ATOM	18783	CA	VAL	G1414	106.930	94.748	62.822	1.00100.07	G
ATOM	18784	CB	VAL	G1414	106.851	93.644	61.688	1.00100.07	G
ATOM	18785	CG1	VAL	G1414	106.821	94.293	60.295	1.00100.07	G
ATOM	18786	CG2	VAL	G1414	108.051	92.693	61.774	1.00100.07	G
ATOM	18787	C	VAL	G1414	105.959	95.906	62.473	1.00100.07	G
ATOM	18788	O	VAL	G1414	104.793	95.908	62.893	1.00100.07	G
ATOM	18789	N	PRO	G1415	106.432	96.908	61.704	1.00100.07	G
ATOM	18790	CD	PRO	G1415	107.828	97.136	61.284	1.00100.07	G
ATOM	18791	CA	PRO	G1415	105.589	98.048	61.317	1.00100.07	G
ATOM	18792	CB	PRO	G1415	106.608	99.064	60.790	1.00100.07	G
ATOM	18793	CG	PRO	G1415	107.672	98.200	60.211	1.00100.07	G
ATOM	18794	C	PRO	G1415	104.488	97.740	60.286	1.00100.07	G
ATOM	18795	O	PRO	G1415	104.772	97.522	59.102	1.00100.07	G
ATOM	18796	N	VAL	G1416	103.236	97.733	60.748	1.00100.07	G
ATOM	18797	CA	VAL	G1416	102.068	97.473	59.896	1.00100.07	G
ATOM	18798	CB	VAL	G1416	101.742	95.950	59.817	1.00100.07	G
ATOM	18799	CG1	VAL	G1416	100.493	95.722	58.953	1.00100.07	G
ATOM	18800	CG2	VAL	G1416	102.941	95.178	59.255	1.00100.07	G
ATOM	18801	C	VAL	G1416	100.846	98.201	60.480	1.00100.07	G
ATOM	18802	O	VAL	G1416	100.812	98.480	61.683	1.00100.07	G
ATOM	18803	N	ALA	G1417	99.854	98.510	59.641	1.00100.07	G
ATOM	18804	CA	ALA	G1417	98.642	99.196	60.107	1.00100.07	G
ATOM	18805	CB	ALA	G1417	99.009	100.489	60.848	1.00100.07	G
ATOM	18806	C	ALA	G1417	97.679	99.506	58.964	1.00100.07	G
ATOM	18807	O	ALA	G1417	97.903	99.080	57.829	1.00100.07	G
ATOM	18808	N	TRP	G1418	96.617	100.261	59.265	1.00 99.08	G
ATOM	18809	CA	TRP	G1418	95.603	100.612	58.265	1.00 99.08	G
ATOM	18810	CB	TRP	G1418	94.711	99.396	58.000	1.00 99.71	G
ATOM	18811	CG	TRP	G1418	94.138	98.796	59.259	1.00 99.71	G
ATOM	18812	CD2	TRP	G1418	94.313	97.454	59.725	1.00 99.71	G
ATOM	18813	CE2	TRP	G1418	93.648	97.348	60.965	1.00 99.71	G
ATOM	18814	CE3	TRP	G1418	94.973	96.327	59.214	1.00 99.71	G
ATOM	18815	CD1	TRP	G1418	93.385	99.432	60.208	1.00 99.71	G
ATOM	18816	NE1	TRP	G1418	93.089	98.572	61.237	1.00 99.71	G
ATOM	18817	CZ2	TRP	G1418	93.621	96.160	61.704	1.00 99.71	G
ATOM	18818	CZ3	TRP	G1418	94.946	95.147	59.947	1.00 99.71	G
ATOM	18819	CH2	TRP	G1418	94.276	95.074	61.178	1.00 99.71	G
ATOM	18820	C	TRP	G1418	94.704	101.803	58.632	1.00 99.08	G
ATOM	18821	O	TRP	G1418	95.119	102.744	59.313	1.00 99.08	G
ATOM	18822	N	LYS	G1419	93.461	101.725	58.158	1.00 79.53	G
ATOM	18823	CA	LYS	G1419	92.419	102.729	58.375	1.00 79.53	G
ATOM	18824	CB	LYS	G1419	92.688	103.965	57.517	1.00100.07	G
ATOM	18825	CG	LYS	G1419	91.460	104.813	57.246	1.00100.07	G
ATOM	18826	CD	LYS	G1419	91.655	105.664	56.007	1.00100.07	G
ATOM	18827	CE	LYS	G1419	90.355	106.315	55.574	1.00100.07	G
ATOM	18828	NZ	LYS	G1419	90.509	106.958	54.242	1.00100.07	G
ATOM	18829	C	LYS	G1419	91.081	102.105	57.972	1.00 79.53	G
ATOM	18830	O	LYS	G1419	91.040	101.144	57.207	1.00 79.53	G
ATOM	18831	N	PRO	G1420	89.966	102.637	58.483	1.00 51.68	G
ATOM	18832	CD	PRO	G1420	89.782	103.568	59.610	1.00100.07	G
ATOM	18833	CA	PRO	G1420	88.690	102.037	58.097	1.00 51.68	G
ATOM	18834	CB	PRO	G1420	87.812	102.317	59.307	1.00100.07	G
ATOM	18835	CG	PRO	G1420	88.265	103.685	59.696	1.00100.07	G
ATOM	18836	C	PRO	G1420	88.108	102.629	56.820	1.00 51.68	G
ATOM	18837	O	PRO	G1420	87.845	103.834	56.743	1.00 51.68	G
ATOM	18838	N	LEU	G1421	87.915	101.773	55.820	1.00 45.79	G
ATOM	18839	CA	LEU	G1421	87.339	102.202	54.552	1.00 45.79	G
ATOM	18840	CB	LEU	G1421	88.038	101.506	53.379	1.00100.07	G
ATOM	18841	CG	LEU	G1421	87.504	101.791	51.965	1.00100.07	G
ATOM	18842	CD1	LEU	G1421	87.371	103.295	51.712	1.00100.07	G
ATOM	18843	CD2	LEU	G1421	88.443	101.150	50.945	1.00100.07	G
ATOM	18844	C	LEU	G1421	85.846	101.871	54.554	1.00 45.79	G
ATOM	18845	O	LEU	G1421	85.435	100.815	55.041	1.00 45.79	G
ATOM	18846	N	LEU	G1422	85.035	102.775	54.009	1.00 91.08	G
ATOM	18847	CA	LEU	G1422	83.591	102.575	53.979	1.00 91.08	G
ATOM	18848	CB	LEU	G1422	82.875	103.802	54.526	1.00 37.74	G
ATOM	18849	CG	LEU	G1422	81.391	103.543	54.736	1.00 37.74	G
ATOM	18850	CD1	LEU	G1422	81.260	102.460	55.809	1.00 37.74	G
ATOM	18851	CD2	LEU	G1422	80.673	104.826	55.141	1.00 37.74	G
ATOM	18852	C	LEU	G1422	83.015	102.266	52.607	1.00 91.08	G
ATOM	18853	O	LEU	G1422	83.001	103.119	51.720	1.00 91.08	G
ATOM	18854	N	MET	G1423	82.522	101.043	52.449	1.00 99.96	G
ATOM	18855	CA	MET	G1423	81.919	100.607	51.200	1.00 99.96	G
ATOM	18856	CB	MET	G1423	82.058	99.090	51.047	1.00 55.09	G
ATOM	18857	CG	MET	G1423	83.494	98.584	50.990	1.00 55.09	G
ATOM	18858	SD	MET	G1423	84.322	98.791	49.384	1.00 55.09	G
ATOM	18859	CE	MET	G1423	85.184	97.230	49.250	1.00 55.09	G
ATOM	18860	C	MET	G1423	80.443	100.982	51.254	1.00 99.96	G
ATOM	18861	O	MET	G1423	79.980	101.554	52.240	1.00 99.96	G
ATOM	18862	N	GLY	G1424	79.714	100.664	50.189	1.00 40.36	G

ATOM	18863	CA	GLY	G1424	78.292	100.949	50.133	1.00	40.36	G
ATOM	18864	C	GLY	G1424	77.622	99.681	49.653	1.00	40.36	G
ATOM	18865	O	GLY	G1424	77.361	99.531	48.450	1.00	40.36	G
ATOM	18866	N	VAL	G1425	77.348	98.778	50.602	1.00	27.66	G
ATOM	18867	CA	VAL	G1425	76.746	97.474	50.319	1.00	27.66	G
ATOM	18868	CB	VAL	G1425	75.197	97.536	50.408	1.00	71.14	G
ATOM	18869	CG1	VAL	G1425	74.645	98.546	49.438	1.00	71.14	G
ATOM	18870	CG2	VAL	G1425	74.611	96.176	50.163	1.00	71.14	G
ATOM	18871	C	VAL	G1425	77.234	97.015	48.934	1.00	27.66	G
ATOM	18872	O	VAL	G1425	78.266	96.347	48.836	1.00	27.66	G
ATOM	18873	N	THR	G1426	76.513	97.393	47.880	1.00	31.35	G
ATOM	18874	CA	THR	G1426	76.883	97.063	46.508	1.00	31.35	G
ATOM	18875	CB	THR	G1426	76.714	98.278	45.601	1.00	50.61	G
ATOM	18876	OG1	THR	G1426	75.341	98.663	45.566	1.00	50.61	G
ATOM	18877	CG2	THR	G1426	77.170	97.963	44.214	1.00	50.61	G
ATOM	18878	C	THR	G1426	78.336	96.629	46.408	1.00	31.35	G
ATOM	18879	O	THR	G1426	78.653	95.442	46.511	1.00	31.35	G
ATOM	18880	N	LYS	G1427	79.214	97.610	46.221	1.00	37.37	G
ATOM	18881	CA	LYS	G1427	80.647	97.375	46.102	1.00	37.37	G
ATOM	18882	CB	LYS	G1427	81.409	98.661	46.416	1.00	100.07	G
ATOM	18883	CG	LYS	G1427	80.968	99.807	45.530	1.00	100.07	G
ATOM	18884	CD	LYS	G1427	81.729	101.100	45.772	1.00	100.07	G
ATOM	18885	CE	LYS	G1427	81.308	102.155	44.737	1.00	100.07	G
ATOM	18886	NZ	LYS	G1427	82.068	103.436	44.836	1.00	100.07	G
ATOM	18887	C	LYS	G1427	81.156	96.247	46.981	1.00	37.37	G
ATOM	18888	O	LYS	G1427	81.533	95.200	46.475	1.00	37.37	G
ATOM	18889	N	SER	G1428	81.157	96.444	48.293	1.00	32.56	G
ATOM	18890	CA	SER	G1428	81.650	95.412	49.200	1.00	32.56	G
ATOM	18891	CB	SER	G1428	81.004	95.545	50.575	1.00	43.88	G
ATOM	18892	OG	SER	G1428	81.457	94.518	51.442	1.00	43.88	G
ATOM	18893	C	SER	G1428	81.405	94.009	48.662	1.00	32.56	G
ATOM	18894	O	SER	G1428	82.312	93.176	48.634	1.00	32.56	G
ATOM	18895	N	ALA	G1429	80.178	93.744	48.237	1.00	41.87	G
ATOM	18896	CA	ALA	G1429	79.863	92.439	47.694	1.00	41.87	G
ATOM	18897	CB	ALA	G1429	78.408	92.349	47.390	1.00	16.83	G
ATOM	18898	C	ALA	G1429	80.653	92.299	46.416	1.00	41.87	G
ATOM	18899	O	ALA	G1429	81.434	91.367	46.254	1.00	41.87	G
ATOM	18900	N	LEU	G1430	80.435	93.256	45.521	1.00	64.11	G
ATOM	18901	CA	LEU	G1430	81.071	93.310	44.209	1.00	64.11	G
ATOM	18902	CB	LEU	G1430	80.535	94.516	43.432	1.00	69.44	G
ATOM	18903	CG	LEU	G1430	81.144	94.800	42.061	1.00	69.44	G
ATOM	18904	CD1	LEU	G1430	81.321	93.507	41.300	1.00	69.44	G
ATOM	18905	CD2	LEU	G1430	80.249	95.754	41.290	1.00	69.44	G
ATOM	18906	C	LEU	G1430	82.593	93.353	44.214	1.00	64.11	G
ATOM	18907	O	LEU	G1430	83.240	92.671	43.421	1.00	64.11	G
ATOM	18908	N	SER	G1431	83.169	94.162	45.091	1.00	61.48	G
ATOM	18909	CA	SER	G1431	84.615	94.263	45.159	1.00	61.48	G
ATOM	18910	CB	SER	G1431	85.025	95.349	46.145	1.00	46.46	G
ATOM	18911	OG	SER	G1431	84.714	94.949	47.464	1.00	46.46	G
ATOM	18912	C	SER	G1431	85.186	92.927	45.608	1.00	61.48	G
ATOM	18913	O	SER	G1431	85.274	91.980	44.821	1.00	61.48	G
ATOM	18914	N	THR	G1432	85.566	92.851	46.879	1.00	74.93	G
ATOM	18915	CA	THR	G1432	86.136	91.632	47.432	1.00	74.93	G
ATOM	18916	CB	THR	G1432	86.409	91.766	48.930	1.00	100.07	G
ATOM	18917	OG1	THR	G1432	85.213	92.184	49.596	1.00	100.07	G
ATOM	18918	CG2	THR	G1432	87.520	92.765	49.175	1.00	100.07	G
ATOM	18919	C	THR	G1432	85.200	90.468	47.243	1.00	74.93	G
ATOM	18920	O	THR	G1432	84.019	90.651	46.956	1.00	74.93	G
ATOM	18921	N	LYS	G1433	85.736	89.270	47.421	1.00	63.33	G
ATOM	18922	CA	LYS	G1433	84.944	88.065	47.272	1.00	63.33	G
ATOM	18923	CB	LYS	G1433	83.938	88.250	46.131	1.00	72.24	G
ATOM	18924	CG	LYS	G1433	82.521	87.823	46.451	1.00	72.24	G
ATOM	18925	CD	LYS	G1433	81.964	88.505	47.679	1.00	72.24	G
ATOM	18926	CE	LYS	G1433	80.549	88.024	47.929	1.00	72.24	G
ATOM	18927	NZ	LYS	G1433	80.035	88.445	49.254	1.00	72.24	G
ATOM	18928	C	LYS	G1433	85.861	86.871	46.982	1.00	63.33	G
ATOM	18929	O	LYS	G1433	87.076	86.910	47.269	1.00	63.33	G
ATOM	18930	N	SER	G1434	85.278	85.817	46.406	1.00	61.50	G
ATOM	18931	CA	SER	G1434	86.028	84.615	46.097	1.00	61.50	G
ATOM	18932	CB	SER	G1434	85.542	83.445	46.960	1.00	32.04	G
ATOM	18933	OG	SER	G1434	84.715	82.550	46.233	1.00	32.04	G
ATOM	18934	C	SER	G1434	85.928	84.237	44.638	1.00	61.50	G
ATOM	18935	O	SER	G1434	85.243	83.284	44.290	1.00	61.50	G
ATOM	18936	N	TRP	G1435	86.619	84.997	43.794	1.00	64.00	G
ATOM	18937	CA	TRP	G1435	86.670	84.757	42.351	1.00	64.00	G
ATOM	18938	CB	TRP	G1435	87.920	83.885	42.053	1.00	26.78	G
ATOM	18939	CG	TRP	G1435	87.749	82.713	41.139	1.00	26.78	G
ATOM	18940	CD2	TRP	G1435	88.137	81.366	41.401	1.00	26.78	G
ATOM	18941	CE2	TRP	G1435	87.761	80.594	40.277	1.00	26.78	G
ATOM	18942	CE3	TRP	G1435	88.762	80.733	42.474	1.00	26.78	G
ATOM	18943	CD1	TRP	G1435	87.177	82.710	39.895	1.00	26.78	G
ATOM	18944	NE1	TRP	G1435	87.178	81.438	39.373	1.00	26.78	G
ATOM	18945	CZ2	TRP	G1435	87.987	79.221	40.202	1.00	26.78	G
ATOM	18946	CZ3	TRP	G1435	88.986	79.365	42.395	1.00	26.78	G

ATOM	18947	CH2	TRP	G1435	88.597	78.626	41.265	1.00	26.78	G
ATOM	18948	C	TRP	G1435	85.379	84.163	41.757	1.00	64.00	G
ATOM	18949	O	TRP	G1435	84.683	84.813	40.963	1.00	64.00	G
ATOM	18950	N	LEU	G1436	85.069	82.936	42.162	1.00	51.15	G
ATOM	18951	CA	LEU	G1436	83.896	82.208	41.715	1.00	51.15	G
ATOM	18952	CB	LEU	G1436	83.832	80.888	42.468	1.00	25.14	G
ATOM	18953	CG	LEU	G1436	83.669	79.712	41.509	1.00	25.14	G
ATOM	18954	CD1	LEU	G1436	84.624	79.867	40.321	1.00	25.14	G
ATOM	18955	CD2	LEU	G1436	83.908	78.399	42.262	1.00	25.14	G
ATOM	18956	C	LEU	G1436	82.551	82.924	41.840	1.00	51.15	G
ATOM	18957	O	LEU	G1436	81.558	82.475	41.273	1.00	51.15	G
ATOM	18958	N	SER	G1437	82.501	84.026	42.578	1.00	51.83	G
ATOM	18959	CA	SER	G1437	81.246	84.744	42.744	1.00	51.83	G
ATOM	18960	CB	SER	G1437	80.902	84.910	44.232	1.00	100.07	G
ATOM	18961	OG	SER	G1437	81.993	85.414	44.975	1.00	100.07	G
ATOM	18962	C	SER	G1437	81.276	86.084	42.052	1.00	51.83	G
ATOM	18963	O	SER	G1437	80.369	86.402	41.299	1.00	51.83	G
ATOM	18964	N	ALA	G1438	82.319	86.868	42.292	1.00	19.91	G
ATOM	18965	CA	ALA	G1438	82.440	88.175	41.646	1.00	19.91	G
ATOM	18966	CB	ALA	G1438	83.667	88.908	42.144	1.00	57.16	G
ATOM	18967	C	ALA	G1438	82.578	87.895	40.167	1.00	19.91	G
ATOM	18968	O	ALA	G1438	82.561	88.809	39.335	1.00	19.91	G
ATOM	18969	N	ALA	G1439	82.721	86.603	39.878	1.00	35.11	G
ATOM	18970	CA	ALA	G1439	82.866	86.066	38.530	1.00	35.11	G
ATOM	18971	CB	ALA	G1439	83.073	84.558	38.602	1.00	23.40	G
ATOM	18972	C	ALA	G1439	81.658	86.357	37.663	1.00	35.11	G
ATOM	18973	O	ALA	G1439	81.775	86.473	36.448	1.00	35.11	G
ATOM	18974	N	SER	G1440	80.495	86.454	38.297	1.00	31.18	G
ATOM	18975	CA	SER	G1440	79.255	86.709	37.586	1.00	31.18	G
ATOM	18976	CB	SER	G1440	78.080	86.224	38.403	1.00	29.41	G
ATOM	18977	OG	SER	G1440	78.181	86.738	39.708	1.00	29.41	G
ATOM	18978	C	SER	G1440	79.100	88.175	37.315	1.00	31.18	G
ATOM	18979	O	SER	G1440	78.817	88.573	36.187	1.00	31.18	G
ATOM	18980	N	PHE	G1441	79.292	88.981	38.349	1.00	51.22	G
ATOM	18981	CA	PHE	G1441	79.176	90.421	38.203	1.00	51.22	G
ATOM	18982	CB	PHE	G1441	79.901	91.130	39.342	1.00	81.19	G
ATOM	18983	CG	PHE	G1441	79.230	90.968	40.670	1.00	81.19	G
ATOM	18984	CD1	PHE	G1441	79.455	89.838	41.444	1.00	81.19	G
ATOM	18985	CD2	PHE	G1441	78.345	91.933	41.132	1.00	81.19	G
ATOM	18986	CE1	PHE	G1441	78.807	89.671	42.657	1.00	81.19	G
ATOM	18987	CE2	PHE	G1441	77.694	91.774	42.339	1.00	81.19	G
ATOM	18988	CZ	PHE	G1441	77.925	90.640	43.105	1.00	81.19	G
ATOM	18989	C	PHE	G1441	79.745	90.873	36.866	1.00	51.22	G
ATOM	18990	O	PHE	G1441	80.919	90.660	36.579	1.00	51.22	G
ATOM	18991	N	GLN	G1442	78.895	91.498	36.061	1.00	100.07	G
ATOM	18992	CA	GLN	G1442	79.258	91.975	34.736	1.00	100.07	G
ATOM	18993	CB	GLN	G1442	78.912	93.461	34.606	1.00	69.01	G
ATOM	18994	CG	GLN	G1442	78.746	93.923	33.155	1.00	69.01	G
ATOM	18995	CD	GLN	G1442	77.521	93.315	32.462	1.00	69.01	G
ATOM	18996	OE1	GLN	G1442	76.392	93.749	32.685	1.00	69.01	G
ATOM	18997	NE2	GLN	G1442	77.744	92.304	31.624	1.00	69.01	G
ATOM	18998	C	GLN	G1442	80.719	91.722	34.322	1.00	100.07	G
ATOM	18999	O	GLN	G1442	80.970	90.883	33.456	1.00	100.07	G
ATOM	19000	N	ASN	G1443	81.676	92.421	34.934	1.00	58.50	G
ATOM	19001	CA	ASN	G1443	83.095	92.253	34.591	1.00	58.50	G
ATOM	19002	CB	ASN	G1443	83.961	93.192	35.421	1.00	95.80	G
ATOM	19003	CG	ASN	G1443	83.577	94.631	35.251	1.00	95.80	G
ATOM	19004	OD1	ASN	G1443	83.478	95.136	34.133	1.00	95.80	G
ATOM	19005	ND2	ASN	G1443	83.362	95.311	36.366	1.00	95.80	G
ATOM	19006	C	ASN	G1443	83.616	90.837	34.793	1.00	58.50	G
ATOM	19007	O	ASN	G1443	84.624	90.635	35.468	1.00	58.50	G
ATOM	19008	N	THR	G1444	82.955	89.866	34.179	1.00	45.05	G
ATOM	19009	CA	THR	G1444	83.326	88.471	34.326	1.00	45.05	G
ATOM	19010	CB	THR	G1444	82.243	87.595	33.712	1.00	31.53	G
ATOM	19011	OG1	THR	G1444	81.005	87.843	34.397	1.00	31.53	G
ATOM	19012	CG2	THR	G1444	82.621	86.118	33.820	1.00	31.53	G
ATOM	19013	C	THR	G1444	84.700	88.053	33.795	1.00	45.05	G
ATOM	19014	O	THR	G1444	85.396	87.265	34.440	1.00	45.05	G
ATOM	19015	N	THR	G1445	85.098	88.572	32.637	1.00	59.45	G
ATOM	19016	CA	THR	G1445	86.405	88.233	32.057	1.00	59.45	G
ATOM	19017	CB	THR	G1445	86.538	88.782	30.647	1.00	36.61	G
ATOM	19018	OG1	THR	G1445	85.316	88.554	29.935	1.00	36.61	G
ATOM	19019	CG2	THR	G1445	87.683	88.098	29.932	1.00	36.61	G
ATOM	19020	C	THR	G1445	87.580	88.776	32.880	1.00	59.45	G
ATOM	19021	O	THR	G1445	88.631	88.132	32.980	1.00	59.45	G
ATOM	19022	N	HIS	G1446	87.402	89.974	33.440	1.00	47.46	G
ATOM	19023	CA	HIS	G1446	88.423	90.586	34.278	1.00	47.46	G
ATOM	19024	CB	HIS	G1446	88.144	92.065	34.519	1.00	70.63	G
ATOM	19025	CG	HIS	G1446	89.023	92.664	35.572	1.00	70.63	G
ATOM	19026	CD2	HIS	G1446	88.735	93.408	36.666	1.00	70.63	G
ATOM	19027	ND1	HIS	G1446	90.390	92.497	35.575	1.00	70.63	G
ATOM	19028	CE1	HIS	G1446	90.907	93.110	36.624	1.00	70.63	G
ATOM	19029	NE2	HIS	G1446	89.924	93.671	37.303	1.00	70.63	G
ATOM	19030	C	HIS	G1446	88.444	89.876	35.616	1.00	47.46	G

ATOM	19031	O	HIS	G1446	89.501	89.475	36.090	1.00	47.46	G
ATOM	19032	N	VAL	G1447	87.277	89.722	36.232	1.00	63.52	G
ATOM	19033	CA	VAL	G1447	87.209	89.030	37.514	1.00	63.52	G
ATOM	19034	CB	VAL	G1447	85.756	88.898	38.038	1.00	99.79	G
ATOM	19035	CG1	VAL	G1447	85.749	88.167	39.379	1.00	99.79	G
ATOM	19036	CG2	VAL	G1447	85.126	90.271	38.196	1.00	99.79	G
ATOM	19037	C	VAL	G1447	87.764	87.630	37.299	1.00	63.52	G
ATOM	19038	O	VAL	G1447	88.009	86.887	38.251	1.00	63.52	G
ATOM	19039	N	LEU	G1448	87.964	87.281	36.033	1.00	89.61	G
ATOM	19040	CA	LEU	G1448	88.479	85.973	35.678	1.00	89.61	G
ATOM	19041	CB	LEU	G1448	87.777	85.475	34.412	1.00	45.68	G
ATOM	19042	CG	LEU	G1448	87.073	84.122	34.585	1.00	45.68	G
ATOM	19043	CD1	LEU	G1448	86.575	83.988	36.023	1.00	45.68	G
ATOM	19044	CD2	LEU	G1448	85.922	83.980	33.593	1.00	45.68	G
ATOM	19045	C	LEU	G1448	89.987	85.982	35.483	1.00	89.61	G
ATOM	19046	O	LEU	G1448	90.714	85.288	36.195	1.00	89.61	G
ATOM	19047	N	THR	G1449	90.450	86.771	34.519	1.00	52.05	G
ATOM	19048	CA	THR	G1449	91.877	86.877	34.223	1.00	52.05	G
ATOM	19049	CB	THR	G1449	92.137	88.050	33.277	1.00	22.15	G
ATOM	19050	OG1	THR	G1449	91.815	87.649	31.941	1.00	22.15	G
ATOM	19051	CG2	THR	G1449	93.585	88.500	33.351	1.00	22.15	G
ATOM	19052	C	THR	G1449	92.741	87.048	35.466	1.00	52.05	G
ATOM	19053	O	THR	G1449	93.483	86.146	35.853	1.00	52.05	G
ATOM	19054	N	GLU	G1450	92.640	88.221	36.075	1.00	92.41	G
ATOM	19055	CA	GLU	G1450	93.392	88.549	37.271	1.00	92.41	G
ATOM	19056	CB	GLU	G1450	92.710	89.717	37.973	1.00	100.07	G
ATOM	19057	CG	GLU	G1450	93.553	90.443	38.987	1.00	100.07	G
ATOM	19058	CD	GLU	G1450	92.817	91.635	39.566	1.00	100.07	G
ATOM	19059	OE1	GLU	G1450	92.317	92.457	38.770	1.00	100.07	G
ATOM	19060	OE2	GLU	G1450	92.739	91.755	40.809	1.00	100.07	G
ATOM	19061	C	GLU	G1450	93.446	87.333	38.192	1.00	92.41	G
ATOM	19062	O	GLU	G1450	94.466	87.068	38.827	1.00	92.41	G
ATOM	19063	N	ALA	G1451	92.344	86.590	38.248	1.00	52.37	G
ATOM	19064	CA	ALA	G1451	92.264	85.400	39.090	1.00	52.37	G
ATOM	19065	CB	ALA	G1451	90.887	84.775	38.981	1.00	52.68	G
ATOM	19066	C	ALA	G1451	93.311	84.404	38.649	1.00	52.37	G
ATOM	19067	O	ALA	G1451	94.072	83.887	39.462	1.00	52.37	G
ATOM	19068	N	ALA	G1452	93.334	84.141	37.347	1.00	100.07	G
ATOM	19069	CA	ALA	G1452	94.281	83.209	36.756	1.00	100.07	G
ATOM	19070	CB	ALA	G1452	94.072	83.152	35.257	1.00	98.47	G
ATOM	19071	C	ALA	G1452	95.722	83.604	37.069	1.00	100.07	G
ATOM	19072	O	ALA	G1452	96.505	82.778	37.539	1.00	100.07	G
ATOM	19073	N	ILE	G1453	96.067	84.862	36.800	1.00	68.55	G
ATOM	19074	CA	ILE	G1453	97.412	85.360	37.065	1.00	68.55	G
ATOM	19075	CB	ILE	G1453	97.456	86.915	37.067	1.00	60.83	G
ATOM	19076	CG2	ILE	G1453	98.052	87.445	38.369	1.00	60.83	G
ATOM	19077	CG1	ILE	G1453	98.288	87.416	35.889	1.00	60.83	G
ATOM	19078	CD	ILE	G1453	97.474	87.776	34.683	1.00	60.83	G
ATOM	19079	C	ILE	G1453	97.930	84.839	38.407	1.00	68.55	G
ATOM	19080	O	ILE	G1453	98.951	84.159	38.454	1.00	68.55	G
ATOM	19081	N	ALA	G1454	97.236	85.146	39.499	1.00	38.49	G
ATOM	19082	CA	ALA	G1454	97.692	84.673	40.797	1.00	38.49	G
ATOM	19083	CB	ALA	G1454	97.155	85.567	41.907	1.00	65.03	G
ATOM	19084	C	ALA	G1454	97.256	83.224	41.018	1.00	38.49	G
ATOM	19085	O	ALA	G1454	96.528	82.648	40.192	1.00	38.49	G
ATOM	19086	N	GLY	G1455	97.719	82.635	42.122	1.00	58.71	G
ATOM	19087	CA	GLY	G1455	97.364	81.262	42.437	1.00	58.71	G
ATOM	19088	C	GLY	G1455	95.856	81.160	42.416	1.00	58.71	G
ATOM	19089	O	GLY	G1455	95.300	80.124	42.053	1.00	58.71	G
ATOM	19090	N	ALA	G1456	95.211	82.264	42.800	1.00	33.60	G
ATOM	19091	CA	ALA	G1456	93.757	82.388	42.841	1.00	33.60	G
ATOM	19092	CB	ALA	G1456	93.142	81.836	41.554	1.00	100.07	G
ATOM	19093	C	ALA	G1456	93.187	81.669	44.054	1.00	33.60	G
ATOM	19094	O	ALA	G1456	92.983	80.453	44.036	1.00	33.60	G
ATOM	19095	N	ALA	G1457	92.927	82.443	45.103	1.00	100.07	G
ATOM	19096	CA	ALA	G1457	92.394	81.929	46.363	1.00	100.07	G
ATOM	19097	CB	ALA	G1457	92.020	83.099	47.273	1.00	100.07	G
ATOM	19098	C	ALA	G1457	91.207	80.977	46.226	1.00	100.07	G
ATOM	19099	O	ALA	G1457	90.171	81.176	46.862	1.00	100.07	G
ATOM	19100	N	ALA	G1458	91.384	79.946	45.406	1.00	63.71	G
ATOM	19101	CA	ALA	G1458	90.390	78.911	45.143	1.00	63.71	G
ATOM	19102	CB	ALA	G1458	90.823	77.625	45.831	1.00	100.07	G
ATOM	19103	C	ALA	G1458	88.930	79.201	45.495	1.00	63.71	G
ATOM	19104	O	ALA	G1458	88.146	78.269	45.705	1.00	63.71	G
ATOM	19105	N	ALA	G1459	88.547	80.473	45.536	1.00	100.06	G
ATOM	19106	CA	ALA	G1459	87.183	80.833	45.908	1.00	100.06	G
ATOM	19107	CB	ALA	G1459	86.186	80.331	44.871	1.00	88.02	G
ATOM	19108	C	ALA	G1459	86.914	80.171	47.247	1.00	100.06	G
ATOM	19109	O	ALA	G1459	85.842	80.340	47.831	1.00	100.06	G
ATOM	19110	N	ALA	G1460	87.907	79.414	47.714	1.00	36.14	G
ATOM	19111	CA	ALA	G1460	87.846	78.676	48.972	1.00	36.14	G
ATOM	19112	CB	ALA	G1460	88.012	79.636	50.167	1.00	20.99	G
ATOM	19113	C	ALA	G1460	86.509	77.974	49.056	1.00	36.14	G
ATOM	19114	O	ALA	G1460	86.173	77.381	50.087	1.00	36.14	G

ATOM	19115	N	ALA	G1461	85.768	78.036	47.949	1.00	36.70	G
ATOM	19116	CA	ALA	G1461	84.437	77.480	47.876	1.00	36.70	G
ATOM	19117	CB	ALA	G1461	84.492	76.018	47.512	1.00	5.07	G
ATOM	19118	C	ALA	G1461	83.897	77.683	49.282	1.00	36.70	G
ATOM	19119	O	ALA	G1461	83.163	76.853	49.810	1.00	36.70	G
ATOM	19120	N	ALA	G1462	84.295	78.805	49.881	1.00	56.37	G
ATOM	19121	CA	ALA	G1462	83.898	79.158	51.232	1.00	56.37	G
ATOM	19122	CB	ALA	G1462	84.701	80.357	51.716	1.00	77.87	G
ATOM	19123	C	ALA	G1462	82.417	79.475	51.273	1.00	56.37	G
ATOM	19124	O	ALA	G1462	81.581	78.590	51.416	1.00	56.37	G
ATOM	19125	N	ALA	G1463	82.083	80.745	51.148	1.00	62.00	G
ATOM	19126	CA	ALA	G1463	80.688	81.114	51.170	1.00	62.00	G
ATOM	19127	CB	ALA	G1463	80.483	82.267	52.104	1.00	100.07	G
ATOM	19128	C	ALA	G1463	80.222	81.474	49.768	1.00	62.00	G
ATOM	19129	O	ALA	G1463	79.056	81.234	49.435	1.00	62.00	G
ATOM	19130	N	ALA	G1464	81.143	82.018	48.954	1.00	54.01	G
ATOM	19131	CA	ALA	G1464	80.875	82.449	47.564	1.00	54.01	G
ATOM	19132	CB	ALA	G1464	82.170	82.688	46.839	1.00	35.57	G
ATOM	19133	C	ALA	G1464	79.992	81.514	46.732	1.00	54.01	G
ATOM	19134	O	ALA	G1464	80.483	80.658	45.988	1.00	54.01	G
ATOM	19135	N	ALA	G1465	78.682	81.721	46.875	1.00	55.92	G
ATOM	19136	CA	ALA	G1465	77.657	80.959	46.197	1.00	55.92	G
ATOM	19137	CB	ALA	G1465	76.993	81.823	45.142	1.00	5.07	G
ATOM	19138	C	ALA	G1465	78.212	79.690	45.579	1.00	55.92	G
ATOM	19139	O	ALA	G1465	78.513	79.643	44.388	1.00	55.92	G
ATOM	19140	N	ALA	G1466	78.372	78.669	46.415	1.00	48.53	G
ATOM	19141	CA	ALA	G1466	78.849	77.370	45.961	1.00	48.53	G
ATOM	19142	CB	ALA	G1466	78.959	76.398	47.132	1.00	17.91	G
ATOM	19143	C	ALA	G1466	77.763	76.916	45.008	1.00	48.53	G
ATOM	19144	O	ALA	G1466	77.871	75.884	44.357	1.00	48.53	G
ATOM	19145	N	ALA	G1467	76.691	77.701	44.969	1.00	49.21	G
ATOM	19146	CA	ALA	G1467	75.576	77.437	44.082	1.00	49.21	G
ATOM	19147	CB	ALA	G1467	74.387	78.403	44.388	1.00	5.07	G
ATOM	19148	C	ALA	G1467	76.154	77.697	42.696	1.00	49.21	G
ATOM	19149	O	ALA	G1467	75.820	77.011	41.733	1.00	49.21	G
ATOM	19150	N	ALA	G1468	77.047	78.678	42.609	1.00	39.31	G
ATOM	19151	CA	ALA	G1468	77.659	79.000	41.333	1.00	39.31	G
ATOM	19152	CB	ALA	G1468	78.860	79.932	41.523	1.00	5.07	G
ATOM	19153	C	ALA	G1468	78.098	77.672	40.736	1.00	39.31	G
ATOM	19154	O	ALA	G1468	77.861	77.400	39.559	1.00	39.31	G
ATOM	19155	N	ALA	G1469	78.710	76.832	41.567	1.00	33.40	G
ATOM	19156	CA	ALA	G1469	79.182	75.519	41.129	1.00	33.40	G
ATOM	19157	CB	ALA	G1469	80.513	75.159	41.855	1.00	5.07	G
ATOM	19158	C	ALA	G1469	78.102	74.482	41.429	1.00	33.40	G
ATOM	19159	O	ALA	G1469	78.143	73.350	40.958	1.00	33.40	G
ATOM	19160	N	ALA	G1470	77.128	74.895	42.224	1.00	22.80	G
ATOM	19161	CA	ALA	G1470	76.030	74.030	42.610	1.00	22.80	G
ATOM	19162	CB	ALA	G1470	75.425	73.382	41.369	1.00	27.52	G
ATOM	19163	C	ALA	G1470	76.426	72.962	43.631	1.00	22.80	G
ATOM	19164	O	ALA	G1470	76.241	71.773	43.397	1.00	22.80	G
ATOM	19165	N	ALA	G1471	76.969	73.383	44.764	1.00	50.20	G
ATOM	19166	CA	ALA	G1471	77.356	72.430	45.796	1.00	50.20	G
ATOM	19167	CB	ALA	G1471	78.750	72.764	46.318	1.00	14.43	G
ATOM	19168	C	ALA	G1471	76.313	72.508	46.918	1.00	50.20	G
ATOM	19169	O	ALA	G1471	75.236	73.069	46.705	1.00	50.20	G
ATOM	19170	N	ALA	G1472	76.609	71.935	48.089	1.00	57.44	G
ATOM	19171	CA	ALA	G1472	75.677	71.972	49.224	1.00	57.44	G
ATOM	19172	CB	ALA	G1472	75.747	70.655	50.043	1.00	5.07	G
ATOM	19173	C	ALA	G1472	76.024	73.170	50.110	1.00	57.44	G
ATOM	19174	O	ALA	G1472	77.106	73.231	50.689	1.00	57.44	G
ATOM	19175	N	ALA	G1473	75.094	74.118	50.203	1.00	69.19	G
ATOM	19176	CA	ALA	G1473	75.257	75.347	50.985	1.00	69.19	G
ATOM	19177	CB	ALA	G1473	73.945	76.131	50.946	1.00	5.07	G
ATOM	19178	C	ALA	G1473	75.726	75.158	52.443	1.00	69.19	G
ATOM	19179	O	ALA	G1473	76.029	74.042	52.868	1.00	69.19	G
ATOM	19180	N	ALA	G1474	75.787	76.260	53.197	1.00	43.69	G
ATOM	19181	CA	ALA	G1474	76.214	76.250	54.604	1.00	43.69	G
ATOM	19182	CB	ALA	G1474	76.291	77.664	55.144	1.00	6.14	G
ATOM	19183	C	ALA	G1474	75.376	75.403	55.566	1.00	43.69	G
ATOM	19184	O	ALA	G1474	74.280	75.801	55.998	1.00	43.69	G
ATOM	19185	N	ALA	G1475	75.949	74.243	55.896	1.00	99.97	G
ATOM	19186	CA	ALA	G1475	75.429	73.222	56.817	1.00	99.97	G
ATOM	19187	CB	ALA	G1475	74.459	72.253	56.074	1.00	14.46	G
ATOM	19188	C	ALA	G1475	76.734	72.496	57.176	1.00	99.97	G
ATOM	19189	O	ALA	G1475	77.151	71.618	56.432	1.00	99.97	G
ATOM	19190	N	ALA	G1476	77.387	72.845	58.289	1.00	23.44	G
ATOM	19191	CA	ALA	G1476	78.680	72.205	58.602	1.00	23.44	G
ATOM	19192	CB	ALA	G1476	79.812	73.117	58.124	1.00	100.07	G
ATOM	19193	C	ALA	G1476	79.039	71.665	60.006	1.00	23.44	G
ATOM	19194	O	ALA	G1476	79.881	70.760	60.123	1.00	23.44	G
ATOM	19195	N	ALA	G1477	78.477	72.217	61.076	1.00	57.41	G
ATOM	19196	CA	ALA	G1477	78.820	71.648	62.372	1.00	57.41	G
ATOM	19197	CB	ALA	G1477	78.141	72.403	63.520	1.00	12.23	G
ATOM	19198	C	ALA	G1477	78.257	70.244	62.253	1.00	57.41	G

ATOM	19199	O	ALA	G1477	78.959	69.259	62.467	1.00	57.41	G
ATOM	19200	N	ALA	G1478	76.991	70.173	61.853	1.00	34.33	G
ATOM	19201	CA	ALA	G1478	76.284	68.910	61.684	1.00	34.33	G
ATOM	19202	CB	ALA	G1478	74.827	69.193	61.363	1.00	11.12	G
ATOM	19203	C	ALA	G1478	76.906	68.019	60.602	1.00	34.33	G
ATOM	19204	O	ALA	G1478	76.888	68.345	59.414	1.00	34.33	G
ATOM	19205	N	ALA	G1479	77.453	66.884	61.023	1.00	67.27	G
ATOM	19206	CA	ALA	G1479	78.089	65.960	60.088	1.00	67.27	G
ATOM	19207	CB	ALA	G1479	79.569	66.308	59.935	1.00	100.07	G
ATOM	19208	C	ALA	G1479	77.939	64.498	60.510	1.00	67.27	G
ATOM	19209	O	ALA	G1479	78.704	63.978	61.328	1.00	67.27	G
ATOM	19210	N	ALA	G1480	76.940	63.849	59.926	1.00	78.48	G
ATOM	19211	CA	ALA	G1480	76.628	62.451	60.186	1.00	78.48	G
ATOM	19212	CB	ALA	G1480	77.094	61.594	59.006	1.00	72.49	G
ATOM	19213	C	ALA	G1480	77.147	61.859	61.502	1.00	78.48	G
ATOM	19214	O	ALA	G1480	77.068	62.486	62.567	1.00	78.48	G
ATOM	19215	N	ALA	G1481	77.675	60.639	61.401	1.00	99.54	G
ATOM	19216	CA	ALA	G1481	78.175	59.891	62.548	1.00	99.54	G
ATOM	19217	CB	ALA	G1481	79.232	60.691	63.284	1.00	100.07	G
ATOM	19218	C	ALA	G1481	76.946	59.658	63.423	1.00	99.54	G
ATOM	19219	O	ALA	G1481	77.030	59.519	64.637	1.00	99.54	G
ATOM	19220	N	ALA	G1482	75.805	59.609	62.746	1.00	33.83	G
ATOM	19221	CA	ALA	G1482	74.488	59.414	63.327	1.00	33.83	G
ATOM	19222	CB	ALA	G1482	73.551	58.812	62.304	1.00	100.07	G
ATOM	19223	C	ALA	G1482	74.484	58.558	64.541	1.00	33.83	G
ATOM	19224	O	ALA	G1482	74.412	59.070	65.659	1.00	33.83	G
ATOM	19225	N	ALA	G1483	74.540	57.245	64.327	1.00	86.95	G
ATOM	19226	CA	ALA	G1483	74.527	56.313	65.446	1.00	86.95	G
ATOM	19227	CB	ALA	G1483	73.295	56.560	66.288	1.00	85.90	G
ATOM	19228	C	ALA	G1483	74.582	54.840	65.075	1.00	86.95	G
ATOM	19229	O	ALA	G1483	75.328	54.411	64.192	1.00	86.95	G
ATOM	19230	N	ALA	G1484	73.761	54.082	65.791	1.00	81.05	G
ATOM	19231	CA	ALA	G1484	73.644	52.652	65.624	1.00	81.05	G
ATOM	19232	CB	ALA	G1484	74.998	52.004	65.826	1.00	72.34	G
ATOM	19233	C	ALA	G1484	72.680	52.195	66.705	1.00	81.05	G
ATOM	19234	O	ALA	G1484	72.668	52.769	67.790	1.00	81.05	G
ATOM	19235	N	ALA	G1485	71.858	51.188	66.417	1.00	88.89	G
ATOM	19236	CA	ALA	G1485	70.935	50.680	67.430	1.00	88.89	G
ATOM	19237	CB	ALA	G1485	70.103	49.518	66.871	1.00	26.45	G
ATOM	19238	C	ALA	G1485	71.826	50.196	68.569	1.00	88.89	G
ATOM	19239	O	ALA	G1485	73.020	49.993	68.371	1.00	88.89	G
ATOM	19240	N	ALA	G1486	71.267	50.017	69.758	1.00	95.48	G

ATOM	19283	O	ALA	H	1	54.759	68.983	65.150	1.00	51.03	H
ATOM	19284	N	ALA	H	1	52.654	70.697	65.083	1.00	51.03	H
ATOM	19285	CA	ALA	H	1	52.586	69.458	64.262	1.00	51.03	H
ATOM	19286	N	ALA	H	2	53.742	67.334	64.028	1.00	56.19	H
ATOM	19287	CA	ALA	H	2	54.835	66.385	64.210	1.00	56.19	H
ATOM	19288	CB	ALA	H	2	56.165	66.998	63.720	1.00	43.59	H
ATOM	19289	C	ALA	H	2	54.943	65.977	65.674	1.00	56.19	H
ATOM	19290	O	ALA	H	2	55.549	66.680	66.480	1.00	56.19	H
ATOM	19291	N	PRO	H	3	54.386	64.799	66.014	1.00	100.07	H
ATOM	19292	CD	PRO	H	3	54.440	63.706	65.037	1.00	54.58	H
ATOM	19293	CA	PRO	H	3	54.355	64.231	67.358	1.00	100.07	H
ATOM	19294	CB	PRO	H	3	55.377	63.111	67.233	1.00	54.58	H
ATOM	19295	CG	PRO	H	3	54.985	62.513	65.889	1.00	54.58	H
ATOM	19296	C	PRO	H	3	54.674	65.209	68.465	1.00	100.07	H
ATOM	19297	O	PRO	H	3	53.788	65.921	68.955	1.00	100.07	H
ATOM	19298	N	GLY	H	4	55.940	65.235	68.857	1.00	100.07	H
ATOM	19299	CA	GLY	H	4	56.388	66.134	69.901	1.00	100.07	H
ATOM	19300	C	GLY	H	4	57.618	66.842	69.385	1.00	100.07	H
ATOM	19301	O	GLY	H	4	58.566	67.084	70.128	1.00	100.07	H
ATOM	19302	N	ILE	H	5	57.595	67.166	68.097	1.00	58.01	H
ATOM	19303	CA	ILE	H	5	58.712	67.833	67.456	1.00	58.01	H
ATOM	19304	CB	ILE	H	5	58.255	68.596	66.238	1.00	38.87	H
ATOM	19305	CG2	ILE	H	5	57.357	69.716	66.666	1.00	38.87	H
ATOM	19306	CG1	ILE	H	5	59.476	69.104	65.473	1.00	38.87	H
ATOM	19307	CD	ILE	H	5	59.156	69.849	64.191	1.00	38.87	H
ATOM	19308	C	ILE	H	5	59.415	68.799	68.401	1.00	58.01	H
ATOM	19309	O	ILE	H	5	60.648	68.842	68.454	1.00	58.01	H
ATOM	19310	N	ASP	H	6	58.639	69.583	69.142	1.00	43.17	H
ATOM	19311	CA	ASP	H	6	59.235	70.510	70.093	1.00	43.17	H
ATOM	19312	CB	ASP	H	6	58.179	71.014	71.072	1.00	72.64	H
ATOM	19313	CG	ASP	H	6	57.055	71.745	70.377	1.00	72.64	H
ATOM	19314	OD1	ASP	H	6	57.316	72.816	69.795	1.00	72.64	H
ATOM	19315	OD2	ASP	H	6	55.913	71.249	70.400	1.00	72.64	H
ATOM	19316	C	ASP	H	6	60.282	69.699	70.833	1.00	43.17	H
ATOM	19317	O	ASP	H	6	61.473	69.988	70.780	1.00	43.17	H
ATOM	19318	N	ALA	H	7	59.818	68.647	71.488	1.00	42.82	H
ATOM	19319	CA	ALA	H	7	60.694	67.775	72.245	1.00	42.82	H
ATOM	19320	CB	ALA	H	7	59.940	66.537	72.694	1.00	100.07	H
ATOM	19321	C	ALA	H	7	61.904	67.371	71.439	1.00	42.82	H
ATOM	19322	O	ALA	H	7	62.998	67.258	71.982	1.00	42.82	H
ATOM	19323	N	LEU	H	8	61.715	67.144	70.147	1.00	59.62	H
ATOM	19324	CA	LEU	H	8	62.841	66.745	69.321	1.00	59.62	H
ATOM	19325	CB	LEU	H	8	62.414	66.570	67.865	1.00	61.05	H
ATOM	19326	CG	LEU	H	8	61.357	65.501	67.607	1.00	61.05	H
ATOM	19327	CD1	LEU	H	8	61.234	65.303	66.115	1.00	61.05	H
ATOM	19328	CD2	LEU	H	8	61.738	64.194	68.278	1.00	61.05	H
ATOM	19329	C	LEU	H	8	63.972	67.767	69.419	1.00	59.62	H
ATOM	19330	O	LEU	H	8	65.135	67.406	69.634	1.00	59.62	H
ATOM	19331	N	PHE	H	9	63.648	69.046	69.262	1.00	30.31	H
ATOM	19332	CA	PHE	H	9	64.691	70.053	69.369	1.00	30.31	H
ATOM	19333	CB	PHE	H	9	64.151	71.430	68.962	1.00	27.21	H
ATOM	19334	CG	PHE	H	9	63.535	71.453	67.590	1.00	27.21	H
ATOM	19335	CD1	PHE	H	9	62.165	71.315	67.423	1.00	27.21	H
ATOM	19336	CD2	PHE	H	9	64.334	71.577	66.456	1.00	27.21	H
ATOM	19337	CE1	PHE	H	9	61.596	71.299	66.145	1.00	27.21	H
ATOM	19338	CE2	PHE	H	9	63.771	71.558	65.165	1.00	27.21	H
ATOM	19339	CZ	PHE	H	9	62.395	71.418	65.016	1.00	27.21	H
ATOM	19340	C	PHE	H	9	65.149	70.013	70.832	1.00	30.31	H
ATOM	19341	O	PHE	H	9	66.134	70.643	71.229	1.00	30.31	H
ATOM	19342	N	GLY	H	10	64.414	69.257	71.637	1.00	44.07	H
ATOM	19343	CA	GLY	H	10	64.799	69.114	73.018	1.00	44.07	H
ATOM	19344	C	GLY	H	10	66.137	68.430	72.907	1.00	44.07	H
ATOM	19345	O	GLY	H	10	67.159	68.988	73.274	1.00	44.07	H
ATOM	19346	N	ALA	H	11	66.130	67.229	72.343	1.00	67.78	H
ATOM	19347	CA	ALA	H	11	67.351	66.448	72.171	1.00	67.78	H
ATOM	19348	CB	ALA	H	11	67.039	65.161	71.384	1.00	84.24	H
ATOM	19349	C	ALA	H	11	68.497	67.220	71.498	1.00	67.78	H
ATOM	19350	O	ALA	H	11	69.288	67.877	72.177	1.00	67.78	H
ATOM	19351	N	ALA	H	12	68.575	67.138	70.170	1.00	73.74	H
ATOM	19352	CA	ALA	H	12	69.628	67.792	69.388	1.00	73.74	H
ATOM	19353	CB	ALA	H	12	69.314	67.653	67.913	1.00	70.65	H
ATOM	19354	C	ALA	H	12	69.913	69.262	69.713	1.00	73.74	H
ATOM	19355	O	ALA	H	12	69.068	69.965	70.265	1.00	73.74	H
ATOM	19356	N	ALA	H	13	71.115	69.717	69.362	1.00	68.23	H
ATOM	19357	CA	ALA	H	13	71.519	71.102	69.594	1.00	68.23	H
ATOM	19358	CB	ALA	H	13	73.045	71.224	69.589	1.00	5.07	H
ATOM	19359	C	ALA	H	13	70.931	71.972	68.493	1.00	68.23	H
ATOM	19360	O	ALA	H	13	69.835	72.522	68.637	1.00	68.23	H
ATOM	19361	N	ALA	H	14	71.666	72.079	67.389	1.00	67.76	H
ATOM	19362	CA	ALA	H	14	71.243	72.877	66.245	1.00	67.76	H
ATOM	19363	CB	ALA	H	14	72.353	72.913	65.208	1.00	33.84	H
ATOM	19364	C	ALA	H	14	69.964	72.336	65.615	1.00	67.76	H
ATOM	19365	O	ALA	H	14	69.936	71.203	65.147	1.00	67.76	H
ATOM	19366	N	ALA	H	15	68.905	73.143	65.615	1.00	28.35	H

ATOM	19367	CA	ALA	H	15	67.640	72.738	65.010	1.00	28.35	H
ATOM	19368	CB	ALA	H	15	66.719	73.938	64.818	1.00	45.45	H
ATOM	19369	C	ALA	H	15	68.041	72.202	63.668	1.00	28.35	H
ATOM	19370	O	ALA	H	15	67.796	71.038	63.352	1.00	28.35	H
ATOM	19371	N	ALA	H	16	68.684	73.076	62.891	1.00	100.07	H
ATOM	19372	CA	ALA	H	16	69.156	72.754	61.548	1.00	100.07	H
ATOM	19373	CB	ALA	H	16	70.136	73.856	61.037	1.00	5.07	H
ATOM	19374	C	ALA	H	16	69.827	71.386	61.567	1.00	100.07	H
ATOM	19375	O	ALA	H	16	69.650	70.584	60.661	1.00	100.07	H
ATOM	19376	N	ALA	H	17	70.578	71.105	62.620	1.00	67.26	H
ATOM	19377	CA	ALA	H	17	71.244	69.818	62.723	1.00	67.26	H
ATOM	19378	CB	ALA	H	17	72.139	69.791	63.955	1.00	100.07	H
ATOM	19379	C	ALA	H	17	70.231	68.669	62.776	1.00	67.26	H
ATOM	19380	O	ALA	H	17	70.162	67.869	61.846	1.00	67.26	H
ATOM	19381	N	ALA	H	18	69.449	68.598	63.855	1.00	92.49	H
ATOM	19382	CA	ALA	H	18	68.444	67.543	64.034	1.00	92.49	H
ATOM	19383	CB	ALA	H	18	67.193	68.094	64.718	1.00	34.88	H
ATOM	19384	C	ALA	H	18	68.050	66.915	62.719	1.00	92.49	H
ATOM	19385	O	ALA	H	18	68.233	65.717	62.519	1.00	92.49	H
ATOM	19386	N	ALA	H	19	67.511	67.734	61.823	1.00	50.11	H
ATOM	19387	CA	ALA	H	19	67.085	67.250	60.525	1.00	50.11	H
ATOM	19388	CB	ALA	H	19	66.963	68.409	59.544	1.00	21.38	H
ATOM	19389	C	ALA	H	19	68.078	66.203	60.029	1.00	50.11	H
ATOM	19390	O	ALA	H	19	67.683	65.163	59.518	1.00	50.11	H
ATOM	19391	N	ALA	H	20	69.366	66.459	60.203	1.00	34.22	H
ATOM	19392	CA	ALA	H	20	70.369	65.489	59.783	1.00	34.22	H
ATOM	19393	CB	ALA	H	20	71.770	65.983	60.147	1.00	54.33	H
ATOM	19394	C	ALA	H	20	70.096	64.108	60.425	1.00	34.22	H
ATOM	19395	O	ALA	H	20	69.563	63.217	59.763	1.00	34.22	H
ATOM	19396	N	ALA	H	21	70.441	63.927	61.702	1.00	23.83	H
ATOM	19397	CA	ALA	H	21	70.219	62.640	62.373	1.00	23.83	H
ATOM	19398	CB	ALA	H	21	70.144	62.823	63.885	1.00	21.97	H
ATOM	19399	C	ALA	H	21	68.958	61.933	61.873	1.00	23.83	H
ATOM	19400	O	ALA	H	21	69.024	60.778	61.456	1.00	23.83	H
ATOM	19401	N	ALA	H	22	67.818	62.620	61.897	1.00	41.15	H
ATOM	19402	CA	ALA	H	22	66.572	62.007	61.438	1.00	41.15	H
ATOM	19403	CB	ALA	H	22	65.391	62.947	61.666	1.00	5.07	H
ATOM	19404	C	ALA	H	22	66.674	61.650	59.963	1.00	41.15	H
ATOM	19405	O	ALA	H	22	66.083	60.678	59.500	1.00	41.15	H
ATOM	19406	N	ALA	H	23	67.429	62.436	59.217	1.00	29.93	H
ATOM	19407	CA	ALA	H	23	67.577	62.169	57.803			

ATOM	19451	N	ALA	H	32	65.760	48.101	55.072	1.00	46.43	H
ATOM	19452	CA	ALA	H	32	65.922	46.933	55.929	1.00	46.43	H
ATOM	19453	CB	ALA	H	32	67.351	46.893	56.512	1.00	27.57	H
ATOM	19454	C	ALA	H	32	64.908	46.999	57.060	1.00	46.43	H
ATOM	19455	O	ALA	H	32	65.258	47.360	58.181	1.00	46.43	H
ATOM	19456	N	ALA	H	33	63.655	46.665	56.773	1.00	100.07	H
ATOM	19457	CA	ALA	H	33	62.630	46.693	57.810	1.00	100.07	H
ATOM	19458	CB	ALA	H	33	61.387	45.943	57.342	1.00	41.38	H
ATOM	19459	C	ALA	H	33	63.181	46.042	59.079	1.00	100.07	H
ATOM	19460	O	ALA	H	33	63.018	46.567	60.186	1.00	100.07	H
ATOM	19461	N	ALA	H	34	63.849	44.903	58.891	1.00	55.51	H
ATOM	19462	CA	ALA	H	34	64.431	44.123	59.979	1.00	55.51	H
ATOM	19463	CB	ALA	H	34	65.037	42.835	59.414	1.00	53.39	H
ATOM	19464	C	ALA	H	34	65.468	44.852	60.836	1.00	55.51	H
ATOM	19465	O	ALA	H	34	66.579	44.349	61.025	1.00	55.51	H
ATOM	19466	N	ALA	H	35	65.098	46.029	61.348	1.00	95.30	H
ATOM	19467	CA	ALA	H	35	65.960	46.837	62.222	1.00	95.30	H
ATOM	19468	CB	ALA	H	35	66.767	47.856	61.413	1.00	52.87	H
ATOM	19469	C	ALA	H	35	65.088	47.558	63.248	1.00	95.30	H
ATOM	19470	O	ALA	H	35	64.663	46.962	64.237	1.00	95.30	H
ATOM	19471	N	ALA	H	36	64.818	48.837	63.010	1.00	99.95	H
ATOM	19472	CA	ALA	H	36	63.989	49.631	63.914	1.00	99.95	H
ATOM	19473	CB	ALA	H	36	62.532	49.184	63.809	1.00	40.22	H
ATOM	19474	C	ALA	H	36	64.454	49.525	65.364	1.00	99.95	H
ATOM	19475	O	ALA	H	36	65.555	49.043	65.643	1.00	99.95	H
ATOM	19476	N	ALA	H	37	63.601	49.994	66.275	1.00	51.63	H
ATOM	19477	CA	ALA	H	37	63.843	49.964	67.726	1.00	51.63	H
ATOM	19478	CB	ALA	H	37	64.909	50.984	68.136	1.00	9.23	H
ATOM	19479	C	ALA	H	37	62.512	50.310	68.368	1.00	51.63	H
ATOM	19480	O	ALA	H	37	62.411	50.490	69.580	1.00	51.63	H
ATOM	19481	N	ALA	H	38	61.498	50.420	67.514	1.00	100.07	H
ATOM	19482	CA	ALA	H	38	60.141	50.717	67.937	1.00	100.07	H
ATOM	19483	CB	ALA	H	38	59.458	51.636	66.912	1.00	19.88	H
ATOM	19484	C	ALA	H	38	59.430	49.365	68.017	1.00	100.07	H
ATOM	19485	O	ALA	H	38	58.434	49.122	67.329	1.00	100.07	H
ATOM	19486	N	ALA	H	39	59.976	48.485	68.859	1.00	99.59	H
ATOM	19487	CA	ALA	H	39	59.450	47.136	69.066	1.00	99.59	H
ATOM	19488	CB	ALA	H	39	60.207	46.452	70.199	1.00	100.07	H
ATOM	19489	C	ALA	H	39	57.964	47.136	69.372	1.00	99.59	H
ATOM	19490	O	ALA	H	39	57.538	47.648	70.404	1.00	99.59	H
ATOM	19491	N	ALA	H	40	57.188	46.553	68.46			

ATOM	19619	O	ALA	H	64	64.292	58.912	70.533	1.00	50.52	H
ATOM	19620	N	ALA	H	65	64.295	61.016	69.733	1.00	83.44	H
ATOM	19621	CA	ALA	H	65	63.781	61.577	70.977	1.00	83.44	H
ATOM	19622	CB	ALA	H	65	63.433	63.049	70.803	1.00	100.07	H
ATOM	19623	C	ALA	H	65	62.533	60.750	71.228	1.00	83.44	H
ATOM	19624	O	ALA	H	65	61.431	61.076	70.774	1.00	83.44	H
ATOM	19625	N	ALA	H	66	62.751	59.651	71.935	1.00	86.00	H
ATOM	19626	CA	ALA	H	66	61.715	58.693	72.253	1.00	86.00	H
ATOM	19627	CB	ALA	H	66	60.901	58.374	71.005	1.00	100.07	H
ATOM	19628	C	ALA	H	66	62.445	57.445	72.734	1.00	86.00	H
ATOM	19629	O	ALA	H	66	62.942	57.403	73.866	1.00	86.00	H
ATOM	19630	N	ALA	H	67	62.520	56.438	71.865	1.00	82.79	H
ATOM	19631	CA	ALA	H	67	63.205	55.201	72.202	1.00	82.79	H
ATOM	19632	CB	ALA	H	67	63.423	54.379	70.958	1.00	39.56	H
ATOM	19633	C	ALA	H	67	64.540	55.552	72.857	1.00	82.79	H
ATOM	19634	O	ALA	H	67	65.126	54.742	73.569	1.00	82.79	H
ATOM	19635	N	ALA	H	68	65.006	56.771	72.600	1.00	64.69	H
ATOM	19636	CA	ALA	H	68	66.236	57.296	73.183	1.00	64.69	H
ATOM	19637	CB	ALA	H	68	66.078	57.392	74.701	1.00	5.07	H
ATOM	19638	C	ALA	H	68	67.518	56.544	72.838	1.00	64.69	H
ATOM	19639	O	ALA	H	68	68.553	56.726	73.491	1.00	64.69	H
ATOM	19640	N	ALA	H	69	67.459	55.703	71.816	1.00	71.17	H
ATOM	19641	CA	ALA	H	69	68.642	54.960	71.415	1.00	71.17	H
ATOM	19642	CB	ALA	H	69	68.243	53.644	70.763	1.00	73.03	H
ATOM	19643	C	ALA	H	69	69.430	55.821	70.440	1.00	71.17	H
ATOM	19644	O	ALA	H	69	69.299	57.047	70.439	1.00	71.17	H
ATOM	19645	N	ALA	H	70	70.240	55.173	69.609	1.00	59.62	H
ATOM	19646	CA	ALA	H	70	71.061	55.867	68.625	1.00	59.62	H
ATOM	19647	CB	ALA	H	70	70.199	56.829	67.821	1.00	60.85	H
ATOM	19648	C	ALA	H	70	72.193	56.611	69.332	1.00	59.62	H
ATOM	19649	O	ALA	H	70	72.417	56.414	70.525	1.00	59.62	H
ATOM	19650	N	ALA	H	71	72.899	57.468	68.606	1.00	65.27	H
ATOM	19651	CA	ALA	H	71	74.010	58.207	69.185	1.00	65.27	H
ATOM	19652	CB	ALA	H	71	75.305	57.465	68.937	1.00	100.07	H
ATOM	19653	C	ALA	H	71	74.125	59.628	68.657	1.00	65.27	H
ATOM	19654	O	ALA	H	71	73.112	60.281	68.398	1.00	65.27	H
ATOM	19655	N	ALA	H	72	75.365	60.098	68.493	1.00	55.71	H
ATOM	19656	CA	ALA	H	72	75.622	61.460	68.022	1.00	55.71	H
ATOM	19657	CB	ALA	H	72	76.227	62.296	69.154	1.00	73.67	H
ATOM	19658	C	ALA	H	72	76.492	61.582	66.778	1.00	55.71	H
ATOM	19659	O	ALA	H	72	76.034	61.327	65.658	1.00	55.71	H
ATOM	19660	N	ALA	H	73	77.739	62.008	66.975	1.00	40.72	H
ATOM	19661	CA	ALA	H	73	78.672	62.189	65.864	1.00	40.72	H
ATOM	19662	CB	ALA	H	73	78.452	63.541	65.212	1.00	79.62	H
ATOM	19663	C	ALA	H	73	80.116	62.065	66.324	1.00	40.72	H
ATOM	19664	O	ALA	H	73	80.528	62.754	67.256	1.00	40.72	H
ATOM	19665	N	ALA	H	74	80.868	61.198	65.639	1.00	95.89	H
ATOM	19666	CA	ALA	H	74	82.272	60.867	65.924	1.00	95.89	H
ATOM	19667	CB	ALA	H	74	82.966	61.962	66.744	1.00	15.50	H
ATOM	19668	C	ALA	H	74	82.245	59.564	66.719	1.00	95.89	H
ATOM	19669	O	ALA	H	74	83.108	59.311	67.558	1.00	95.89	H
ATOM	19670	N	ALA	H	75	81.226	58.751	66.446	1.00	100.07	H
ATOM	19671	CA	ALA	H	75	81.038	57.466	67.111	1.00	100.07	H
ATOM	19672	CB	ALA	H	75	79.548	57.116	67.165	1.00	44.27	H
ATOM	19673	C	ALA	H	75	81.807	56.382	66.365	1.00	100.07	H
ATOM	19674	O	ALA	H	75	82.995	56.186	66.613	1.00	100.07	H
ATOM	19675	N	ALA	H	76	81.128	55.685	65.453	1.00	41.38	H
ATOM	19676	CA	ALA	H	76	81.744	54.626	64.657	1.00	41.38	H
ATOM	19677	CB	ALA	H	76	80.833	54.277	63.498	1.00	45.25	H
ATOM	19678	C	ALA	H	76	83.119	55.050	64.127	1.00	41.38	H
ATOM	19679	O	ALA	H	76	83.894	54.221	63.631	1.00	41.38	H
ATOM	19680	N	ALA	H	77	83.399	56.350	64.237	1.00	99.89	H
ATOM	19681	CA	ALA	H	77	84.654	56.951	63.790	1.00	99.89	H
ATOM	19682	CB	ALA	H	77	85.851	56.182	64.363	1.00	75.98	H
ATOM	19683	C	ALA	H	77	84.698	56.947	62.268	1.00	99.89	H
ATOM	19684	O	ALA	H	77	84.543	57.988	61.622	1.00	99.89	H
ATOM	19685	N	ALA	H	78	84.908	55.765	61.703	1.00	99.61	H
ATOM	19686	CA	ALA	H	78	84.956	55.616	60.260	1.00	99.61	H
ATOM	19687	CB	ALA	H	78	86.239	54.888	59.836	1.00	60.65	H
ATOM	19688	C	ALA	H	78	83.735	54.831	59.809	1.00	99.61	H
ATOM	19689	O	ALA	H	78	83.415	53.774	60.368	1.00	99.61	H
ATOM	19690	N	ALA	H	79	83.040	55.369	58.811	1.00	78.33	H
ATOM	19691	CA	ALA	H	79	81.877	54.695	58.264	1.00	78.33	H
ATOM	19692	CB	ALA	H	79	81.225	55.554	57.189	1.00	66.29	H
ATOM	19693	C	ALA	H	79	82.466	53.427	57.665	1.00	78.33	H
ATOM	19694	O	ALA	H	79	81.750	52.492	57.294	1.00	78.33	H
ATOM	19695	N	ALA	H	80	83.795	53.427	57.577	1.00	92.64	H
ATOM	19696	CA	ALA	H	80	84.566	52.306	57.065	1.00	92.64	H
ATOM	19697	CB	ALA	H	80	86.038	52.504	57.404	1.00	47.94	H
ATOM	19698	C	ALA	H	80	84.022	51.080	57.775	1.00	92.64	H
ATOM	19699	O	ALA	H	80	83.921	49.995	57.205	1.00	92.64	H
ATOM	19700	N	ALA	H	81	83.663	51.283	59.035	1.00	78.72	H
ATOM	19701	CA	ALA	H	81	83.107	50.229	59.862	1.00	78.72	H
ATOM	19702	CB	ALA	H	81	83.515	50.441	61.303	1.00	100.07	H

